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UTILITY PATENT APPLICATION TRANSMITTAL A  
(for Noncontinuing, Nonprovisional  
Applications under 37 C.F.R. §1.53(b))

Attorney Docket No. A00554/11510-00013

Box PATENT APPLICATION  
Commissioner of Patents and Trademarks  
ATTENTION: Assistant Commissioner  
for Patents  
Washington, D.C. 20231

Sir:

Transmitted herewith for filing  
under 37 C.F.R. §1.53(b) is the  
nonprovisional, noncontinuing  
patent application for:

Title: WEB-BASED NETWORK MONITORING TOOL

First Named Inventor or  
Application Identifier: DOUGLAS A. HAHN

)  
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- (X) 105 pages of the specification (including claims <sup>and Appendices</sup>) are enclosed.
- (X) 25 sheet(s) of drawings are enclosed. ( ) Formal (X) Informal
- ( ) An executed Oath or Declaration and Power of Attorney naming the actual inventors is enclosed.
- (X) The names of persons believed to be the actual inventors are set forth in the enclosed unexecuted Oath or Declaration and Power of Attorney (§1.41(a) and §1.53(b)).
- ( ) An Assignment(s) of the invention to \_\_\_\_\_, and cover sheet are enclosed.
- ( ) A check in the amount of \$\_\_\_\_\_ to cover the fee for recording the assignment(s) is enclosed.
- ( ) A 37 C.F.R. §3.73(b) Statement is enclosed (where an Assignee seeks to take action in a matter before the Patent Office).
- ( ) An Information Disclosure Statement is enclosed.

( ) A Form PTO-1449 is enclosed.

( ) \_\_\_\_\_ References (copies) listed on the Form PTO-1449 are enclosed.

(X) A Return Receipt Postcard is enclosed (MPEP §503).

*Noncontinuing Utility §1.53(b)-1-1299*

( ) Priority of application number \_\_\_\_/\_\_\_\_ filed on \_\_\_\_\_ in \_\_\_\_\_ is claimed under 35 U.S.C. §119.

( ) A certified copy of the priority document is enclosed.

( ) A MicroFiche Computer Program (Appendix) is enclosed.

( ) A Nucleotide and/or Amino Acid Sequence Submission is enclosed.

( ) A Computer Readable Copy is enclosed.

( ) A Paper Copy (Identical to Computer Copy) is enclosed.

( ) A Statement Verifying Identity of above Copies is enclosed.

(X) The filing fee is calculated below:

Fee Calculation For Claims As Filed

(a) Basic Fee \$ 690.00

(b) Independent Claims 3 - 3 = 0 x \$ 78.00 = \$ 0.00

(c) Total Claims 16 - 20 = 0 x \$ 18.00 = \$ 0.00

(d) Fee for Multiply Dependent Claims \$260.00 \$ \_\_\_\_\_

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*Noncontinuing Utility §1.53(b)-2-1299*

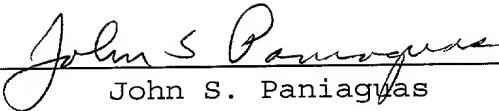
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Atty Docket No. A00554/00013

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

This is a U.S. Patent Application for:

**Title: WEB-BASED NETWORK MONITORING TOOL**

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**Inventor #2:** Bruce Lee Leatherman

# **WEB-BASED NETWORK MONITORING TOOL**

## **Background of the Invention**

### **1. Field of the Invention:**

The present invention relates to a monitoring tool for use in a telecommunications system which automatically monitors one or more automatic call distributors (ACD) and provides an indication of the status of such ACDs in essentially real time.

### **2. Description of the Prior Art:**

Automatic call distributors (ACD) are known in the art. Such ACDs are telecommunications devices, used by various manufactures and service providers, to handle a relatively huge volume of calls and distribute them among a relatively few agents. Such ACDs are known to be networked and interconnected with interactive voice response units (IVR). As such, calls to a company's customer service telephone are provided with menu options by the IVR depending on the type of service required. The caller's selection is then used to route the call to the appropriate ACD in the network. One or more agent groups are normally affiliated with each of the ACDs in the network. The call is routed to an agent group and held until one of the agents is available to take the call. The calls are normally distributed to the agents according to various criteria. For example, the call may be routed to the agent in the agent group that has been idle the longest. Alternatively, the call may be routed to the agent based on the caller's telephone number or the number dialed by the caller. If all of the agents are busy, the call may be held in queue or routed to another agent group, for example, for a predetermined time period or the caller may be requested to leave a voice mail message for later call back.

Such ACDs are known to be provided by a number of manufacturers. For example, Lucent Technologies, Rockwell, Toshiba and STE are all known manufacturers of ACDs. An important aspect of such ACDs is the efficiency by which the incoming service calls are handled. As such, all of the providers of such ACDs are known to provide online monitoring of the ACDs. Unfortunately, such systems are monitored manually on a query basis. In other words, service technicians must manually query or poll each of the ACDs to determine its status, which can be time consuming. Once an alarm condition is detected, a service technician is subsequently dispatched to correct the problem. Unfortunately, with such a system, an ACD can be out of service for several hours and perhaps days depending on the location of the service technician relative to the ACD and the severity of the problem. While such ACDs are out of

service, the call answering time potentially increases, perhaps leading many customer calls unanswered, potentially causing customer ill will toward the company and increased call traffic when the ACD is returned to service. Thus, there is a need for a monitoring system which lowers the response time and provides continuous and automatic monitoring of the various conditions in order to reduce the amount of time such ACDs are out of service.

### **Brief Description of the Drawings**

Various objects and advantages of the present invention will be realized upon consideration of the following specification and attached drawing wherein:

FIG. 1 is a block diagram of an inbound and outbound distribution system for a network of automatic call distributors (ACD) in accordance with the present invention.

FIG. 2 is an exemplary block diagram of a network of ACDs with exemplary agent groups associated with each of the ACDs according to the present invention.

FIG. 3 is a detailed block diagram of a single ACD in accordance with the present invention.

FIG. 4 is an exemplary home web page for an ACD in accordance with the present invention which provides hyperlinks to various web pages for all incoming and outgoing trunk groups connected to the ACD as well as auxiliary equipment associated with the ACD.

FIGs. 5A, 5B represents an exemplary web page, linked to the web page illustrated in FIG 4, illustrating the status of incoming trunk groups coupled to the ACD illustrated in FIG. 4.

FIGs. 6A, 6B represents an exemplary web page, linked to the web page illustrated in FIGs. 5A, 5B, illustrating the trunk inventory record keeping system (TIRKS) for a selected trunk group illustrated in FIGs. 5A and 5B.

FIGs. 7A, 7B represents an exemplary web page, linked to the exemplary home web page illustrated in FIG. 4 illustrating the status of the various expansion port network (EPN) connected to the ACD illustrated in FIG. 4.

FIG. 8 represents an exemplary web page linked to the home web page illustrated in FIG. 4, illustrating an alarm log for the ACD illustrated in FIG. 4.

FIG. 9 is an exemplary web page, linked to the ACD home web page illustrated in FIG. 4 illustrating the ACD agent status.

FIG. 10 is an exemplary web page, linked to the EPN web page illustrated in FIGs. 7A, &B which illustrates the EPN cabinet stations and port assignments.

FIG. 11 is an exemplary web page, linked to the home web page illustrated in FIG. 4, which illustrates the traffic or load of all customer care centers (CCC) and inbound traffic to the ACD in FIG. 4.

### **Detailed Description of the Invention**

The present invention relates to a monitoring tool for use with one or more automatic call distributors (ACD) which automatically and continuously polls or queries the ACDs to monitor not only alarm conditions but other conditions, such as agent staffing levels, call answering time, call routing and traffic conditions. Such continuous and automatic querying of the ACD in accordance with the present invention is thus able to improve the overall efficiency of such ACDs by improving the service response time of such ACDs. In accordance with one aspect of the invention, the status of the ACDs may be directed to a website, for example, on an enterprise Intranet website to enable any of the company representatives with access rights to access the real time performance of the ACD network from any location. Another aspect of the invention is the ability to provide automatic paging for predetermined alarm status condition.

Although the present invention is illustrated and described relative to Lucent Definity G3R ACDs, the principles of the present invention are applicable to virtually any ACD or other telecommunications equipment which stores status data.

An exemplary block diagram illustrating the inbound and outbound trunks for an exemplary network of ACDs is illustrated in FIG. 1. As shown, the exemplary network, generally identified with the reference numeral 20, is shown with, for example, six (6) exemplary ACDs 22, 24, 26, 28, 30 and 32. As shown, the exemplary ACD network 20 may contain ACDs in different states in different regions in the country. For example, as shown in FIG. 1, three ACDs 22, 24 and 26 may be located in Illinois, designated as Illinois-1; Illinois-2 and Illinois-3, while two ACDs 28 and 30 are located in Michigan and designated as Michigan-1 and Michigan-2. The sixth ACD may be located in Ohio and designated Ohio.

Each ACD 22, 24, 26, 28, 30 and 32 may include two inbound trunk groups and two outbound trunk groups. For example, the ACD 22 may include two inbound trunk groups 34 and 36 from independent long distance carrier switches 38 and 40. In order to improve the

inbound reliability of the system, calls placed to a central office 42 may be routed to two different access tandems 44 and 46 by way of a plurality of trunks 48 and 50. The access tandems 44 and 46 may also be tied together by way of intermachine trunks (IMT) 52. Separate trunk groups 54, 56, 58 and 59 from each of the access tandems 44 and 46 are applied to each of the long distance carrier switches 38 and 40. In particular, each access tandem is connected to both of the long distance carrier switches 38 and 40 by way of a plurality of trunk groups 54 and 56. Similarly, the access tandem 46 may be connected to the long distance carrier switches 38 and 40 by way of a plurality of trunk groups 56 and 58. With such a configuration, should one of the access tandems 44 or 48 fail, calls can be routed through the other access tandem since both access tandems feed each of the long distance carrier switches 38 and 40; and the access tandems 44 and 46 are tied together by way of the IMT 52. The exemplary inbound distribution system may also be configured to minimize service loss upon failure of one of the long distance carrier switches 38 and 40. In particular, as mentioned above, each of the ACDs 22, 24, 26, 28, 30 and 32 has two incoming trunk groups 34 and 36; one from each of the long distance carrier switches 38 and 40 respectively. Thus, should one of the long distance carrier switches 38, 40 fail, calls can be routed to the appropriate ACD 22, 24, 26, 28, 30 and 32 by the other long distance carrier switch. Similarly, should problems develop with one of the trunk inbound trunk groups 34 or 36, calls to the ACD can be re-routed by way of the other trunk groups to provide improved overall reliability of the system.

Each of the ACDs 22, 24, 26, 28, 30 and 32 may also be provided with, for example, two outgoing trunk groups. For example, the ACD 22 may be provided with the outgoing trunk groups 58 and 60. These outbound trunk groups enable outbound calls from the ACDs 22, 24, 26, 28, 30 and 32 to be directed to central offices (not shown). In order to provide reliability of outgoing calls from each of the ACDs 22, 24, 26, 28, 30 and 32, each of the outgoing trunk groups 58 and 60 are directed to a separate central office (not shown).

FIG. 2 illustrates a block diagram of an exemplary ACD network 20. As mentioned above, the ACD network in accordance with an exemplary embodiment of the invention includes six ACDs 22, 24, 26, 28, 30 and 32. The exemplary ACD network 20 may be configured to route calls, for example, to approximately 6,000 agents, distributed in one or more regions around the country. Each ACD 22, 24, 26, 28, 30 and 32 may include one or more customer care centers (CCC) for handling various customer services, generally identified with the reference numeral 62. Each CCC 62 may include one or more expansion port networks

(EPN). Each EPN may be used to route calls to a plurality of agents, for example, 90 agents. In addition to the CCCs 62, each ACD 22, 24, 26, 28, 30 and 32 may utilize EPNs for special purpose applications, such as training, generally identified with the reference numeral 24, collections, generally identified with the reference numeral 66 and, for example, executive applications, generally identified with the reference numeral 68.

As discussed above, each of the ACDs 22, 24, 26, 28, 30 and 32 is fed with two incoming trunk groups 34 and 36 (FIG. 1) and two outgoing trunk groups 58 and 60. The outgoing trunk groups may be used for customer call back or transferring calls to different ACDs or CCC. In addition, each of the ACDs 22, 24, 26, 28 and 30 may be connected to the other five ACDs by a number of trunk groups. For example, the ACD 22 may be connected to the ACD 32 by way of an intermachine trunk group (IMT) 68. Similarly, the ACD 22 may be connected to the ACDs 24, 26, 28 and 30 by way of IMT groups 70, 72, 74 and 76. As such, should one of the ACDs or trunk groups fail, calls can be routed by way of the IMTs to other ACDs in the network.

FIG. 3 is a block diagram of an exemplary block diagram of a consumer voice network, generally identified with the reference numeral 100. For example, 800 number calls placed from a telephone 102 are directed to a central office, for example, the central office 42. The network service database 104 at the central office 42 determines the responsible organization for handling the call. In particular, the 800 number is looked up in the database 104, and an appropriate carrier identification code (CIC) is returned. In this example, since the call is directed to an 800 number, the network service database 104 will return a CIC directing that the calls be directed to an access tandem 44, 46 and a long distance carrier switch, for example, the long distance carrier switches 38 and 40. Each long distance carrier switch 38 and 40 includes a service control point (SCP) data base 104 used to look up the 800 number and direct the call to one of the ACDs 22, 24, 26, 28, 30 and 32 by way of one of two incoming trunk groups 34 and 36.

Initially the call is routed to an interactive voice response unit 106, for example, an IBM Direct Talk 6000, where the caller may be given various voice menu options in which the customer is directed to respond by way of the touch-tone telephone 102. In addition, the customer may be required to key in a telephone number. The information input by the customer is then looked up on a database, such as an Ameritech Customer Information System (ACIS) data base 106 containing customer records. The customer record information may then be provided

to a server 108, used to provide the information back to the ACD 22, 24, 26, 28, 30 and 32 and display the information on the screen of the next available agent. The call and the above-mentioned information are then routed to an appropriate CCC 68. In particular, the calls are routed to an EPN 108, which, in turn, routes the calls to the next available agent. Each agent is provided with a work station 112. All the work stations may be connected together in a network, for example a token ring network. The customer records may then be "screen popped" onto the agents work stations 112, when the agent picks up the call.

Other options may be provided with the ACDs 22, 24, 26, 28, 30 and 32. For example, a predictive dialer 116 may be provided and connected to the ACD 22, 24, 26, 28, 30 and 32. The predictive dialer, 116 may be used for automatic dialing for various purposes, such as collections. As shown in FIG. 2, the ACDs 26 and 30 are provided with predictive dialers. In addition, a call management system (CMS) 118 may be provided with each ACD 22, 24, 26, 28, 30 and 32. The CMS 118 collects data from the ACD 22, 24, 26, 28, 30 and 32 and stores the data for 24 hours. The data collected by the CMS 118 is available by way of a dial-up modem.

As mentioned above, each ACD 22, 24, 26, 28, 30 and 32 may be used to route calls to one or more EPNs 108 (FIG. 3). A typical single EPN may be used to direct calls to, for example, 90 customer service agents. Thus, any time there is an outage related to one of the ACDs 22, 24, 26, 28, 30 or 32, several problems can result. Such an outage causes an interruption of customer service or other function associated with the ACD. In addition, such outages idle a relatively significant number of customer service agents. Depending on the severity of the outage and availability of service technicians, such outages can thus be substantial. As such, various vendors of ACDs, such as Lucent Technologies, have developed software which allows the status of the ACD 22, 24, 26, 28, 30 and 32 to be stored and thus be manually polled by way of a dial-up modem with standard communications software to ascertain the status of the ACDs 22, 24, 26, 28, 30 and 32. With such software, it is necessary to manually poll the ACDs 22, 24, 26, 28, 30 and 32 on a periodic basis. For a network of ACDs, for example, as illustrated in FIG. 2, a considerable amount of man power is required to perform the manual polling of the ACDs 22, 24, 26, 28, 30 and 32. In addition, such systems are reactive. In other words, once an alarm condition is detected, a service technician is subsequently dispatched to correct the problem. Unfortunately with such prior art systems, an ACD can be

out of service for several hours and perhaps days depending on the severity of the problem and the location of the service technician relative to the ACD 22, 24, 26, 28, 30 and 32.

In order to solve this problem, the present invention automatically and continuously polls or queries each of the ACDs 22, 24, 26, 28, 30 and 32 on a periodic basis, for example every two minutes, and provides the status of the ACDs. The system may also be used to monitor the load balance on each of the ACDs 22, 24, 26, 28, 30 and 32 as well as various other attributes of the system, for example, the call traffic to each of the agents, and the average amount of wait time per call. This information may then be transferred, for example, over a secure line, for example, to a corporate Intranet, and displayed by way of a conventional web browser. As known in the art, such corporate Intranet networks are normally protected by a corporate fire wall, which only enables authorized users to access the corporate Intranet. As such, anyone with access rights to the corporate Intranet can access the ACD status information over the Internet from virtually anywhere in the world. By providing automatic and continuous polling of the ACDs, the status of ACDs can be detected and adjustments made to correct problems before they happen.

Exemplary web pages in accordance with the present invention, adapted to be displayed by way of a conventional web browser, such as the Internet Explorer and Netscape, are illustrated in FIGs. 4 -11. Referring to FIG. 4, an exemplary ACD home page for the ACD 28 is illustrated and generally identified with the reference numeral 130. Home pages for the remaining ACDs 22, 24, 26, 30 and 32 would be similar. The ACD home page 130 may be provided with three data boxes; a traffic load data box 132; an alarm status data box 134 and a current system status data box 136.

The traffic load data box 132 is adapted to provide the traffic load of a particular ACD and in particular the traffic load of all of the various trunks connected to the ACD including inbound, outbound and intermachine trunks as well as information on the EPNs and other devices connected to the ACD, such as an IVR. The traffic load data box 132 may be provided with five columns 138, 140, 142, 144 and 146. Column 138 relates to the trunk group connected to the particular ACD. In particular, as mentioned above, each of the ACDs 22, 24, 26, 28 and 30 is fed from inbound trunks from the long distance carrier switches 38 and 40 (FIG. 1), identified, for example, as Hudson and Troy, respectively as well as the intermachine trunks (IMT) connected to the ACD 28 from each of the other ACDs 22, 24, 26, 28, 30 and 32. Column 138 also lists the outbound feeds for each ACD (i.e., OUT DETROIT and OUT SOUTHFIELD) as



well as supplemental services, such as a direct inline dial (DID), an interactive voice response (IVR) unit and the contact quality center (CQC). Column 140 may be used to refer to the number of trunks associated with each of the trunk groups identified in column 138. Column 142 may be used to identify the number of trunks out of service, while column 144 may be used to display the percent occupancy rate of the various trunk groups.

In accordance with an important aspect of the invention, traffic load information for all the inbound and outbound trunks to the ACD as well as to the IVR may be displayed graphically in column 146, for example, in the form of a bar graph. For example, as shown in FIG. 4 for the Troy trunk group, identified in row 150 and column 144, a 59% occupancy rate is indicated. This 59% occupancy rate represents the traffic load for the incoming trunk lines from the Troy long distance carrier switch 40 (FIG. 1).

In one embodiment of the invention, different colors may be used to provide quick visual indication of the occupancy rate. For example, the color green may be used to display occupancy rates up to 80% while a different color such as yellow may be used to display occupancy rates, for example, greater than 80%. In this way, the load balance of all trunk groups connected to each of the ACDs 22, 24, 26, 28, 30 and 32 can be quickly checked at a glance by just monitoring column 146 and noting the specific color used for the bar graph.

In addition, to the trunk groups connected to the various ACDs 22, 24, 26, 28, 30 and 32, the traffic load data block 130 may also be used to provide access to associated equipment, such as EPNs and CQC (contact quality center). As will be discussed in more detail below, each of the entries in column 138 of the traffic load data box 130 may be hyperlinked to successive web pages which provide more detailed information. For example, FIGs. 5A and 5B illustrate an exemplary web page, activated by way of the hyperlink for the Troy trunk group. In particular, if the "Troy" hyperlink in column 138 and row 150 of the load balance data box 130 is clicked on, more detailed information regarding the trunk groups connected between Troy and the ACD 28 is provided. For example, FIG. 4, column 140 indicates that Troy has 708 trunks. FIG. 5A provides the data for those 708 trunks. For example, with reference to FIG. 5A and 5B, six (6) trunk groups (TROY TGN 623, 626, 627, 629, 624, 634) are shown from the long distance carrier switch 40 (FIG. 1) at Troy to the ACD 28. Each trunk group contains five ISDN-PRI lines, which each contain 24 circuits to provide a total of 708 trunks between the long distance carrier switch 40 and the ACD 28. The web page illustrated in FIG. 5A and 5B may be broken into a number of data boxes 150, 152, 154, 156, 158 and 160. Each data box 150-160

may be used to display information regarding a single trunk group, which, as mentioned above, may display five ISDN-PRI lines.

Each of the data boxes 150-160 may be provided with a plurality of columns. The first column 162 may be used to represent the trunk group number (TGN). The second column may be used to represent office equipment (OE). The third column may be used to provide the circuit identification numbers and may be hyperlinked to local assignment information for each circuit, for example, as illustrated in FIG. 6A and 6B. The alarm status may be provided in column 168 for each of the ISDN-PRI lines. The columns 171 and 173 may be used for miscellaneous information, such as smart jacks, if applicable.

An important aspect of one embodiment of the invention relates to the integration of other data, which may be other dynamic data not retrieved from the ACD, or static data, such as the local circuit assignments and records. In particular, the trunk inventory record keeping system (TIRKS) data as illustrated in FIGS. 6A and 6B may be hyperlinked to the trunk group data illustrated in FIGS. 5A and 5B. Thus, when alarm conditions are detected, the TIRKS data is readily available, for example, on an enterprise intranet website. As such, trouble shooting of alarm conditions is greatly reduced.

Returning to the ACD home page illustrated in FIG. 4, an "ALARM STATUS" data box 134 may also be provided. As currently shown, the alarm status box 134 indicates that there are no alarms (i.e. "There are no alarms"). The alarm status box 134 may be used to represent alarms which may be flashing and/or displaying different colors. For example, minor alarms may be displayed in yellow while major alarms are displayed in red. The alarm status data box 134 may be hyperlinked to a historical alarm log, for example as illustrated in FIG. 8, which maintains the status of alarms for a predetermined period of time, such as 30 days.

As mentioned above, the ACD home page 130 may also be provided with a "current system status" data box 136 which gives different types of useful information regarding the call traffic on the system, as well as other useful information regarding the system. For example, the current system status data box 136, as shown, indicates that there are 233 agents active and that there are 68 calls in the queue and the longest call has been in the queue for 10 minutes, 12 seconds. The current system status box 136 may contain a hyperlink to an agent status web page, for example, as generally shown in FIG. 9. The agent status web page may be used to provide different information regarding the agent status. For example, the agent status web page may provide information regarding the skill level of the agent, for example as provided

in column 170, the number of agents active, as indicated in column 172, the number of calls in the queue as shown in column 174 and the longest wait for a waiting call, for example as illustrated in column 176, as well as information regarding the name of the gate or functional representation of a call queue.

As mentioned above, the ACD home page 130, in addition to providing an information relating to the trunks connected to a particular ACD 22, 24, 26, 28, 30 and 32, may also be used to provide information regarding equipment connected to the ACDs, such as EPNs. As mentioned above, one or more customer care centers (CCC) may be connected to each of the ACDs 22, 24, 26, 28, 30 and 32. Each of the CCCs may be formed from one or more EPNs, which distribute the calls to the various agents at a particular location. As such, the EPNs associated with an ACD may be hyperlinked to an EPN web page, such as illustrated in FIG. 10 which provides additional information regarding the particular EPN, such as the "port/card" assignment within the selected EPN cabinet. Such information is relatively useful to a service technician who can look up the information on the Intranet rather than looking through a number of detailed corporate records.

A load balance page is illustrated in FIG. 11. This home page may be provided to display the traffic for an entire ACD. For example, referring to FIG. 2, the ACD 28 illustrates a CCC in Kalamazoo with three EPNs; a CCC in Bethune with one EPN; a CCC in Southfield with seven EPNs; and a CCC in Saginaw with four EPNs. Referring back to FIG. 11, the traffic load for each of the EPNs may be illustrated visually. For example, the load balance page may be provided with a plurality of columns 180-188. The columns 180-186 may be used to indicate the port network number, the EPN or host cabinet, name, the occupancy rate and the highest occupancy rate ever of all of the EPNs as well as the host cabinets. The occupancy information may be shown graphically by way of a bar graph in column 188. For example, a left-hand portion 190 of the bar chart may be used to represent the current occupancy for the previous hour while the right portion 192 may be used to represent the highest occupancy ever.

### **SOFTWARE**

As mentioned above, the present invention continuously and automatically polls the ACDs over a dial up connection, captures data stored relative to the ACDs and processes this data, for example, to generate the exemplary web pages illustrated in FIGs. 4 through 11. The system in accordance with the present invention may be implemented with standard

communications type software, such as Procomm Plus V4.7, available from Symantec Corp., and adapted to provide continuous and automatic polling and transmission of data stored in the ACDs. In one embodiment of the invention, the system is adapted to transmit data, such as alarm data, gathered from the ACDs, to a paging platform to provide notification of the alarm status of the ACDs in addition to or in lieu of the web pages illustrated in FIGs. 4 through 11. The communication software is illustrated in FIG. 12 while the paging software is illustrated in FIG. 13. In particular, as will be discussed in more detail below, FIG. 12 illustrates a modification to a standard communication software package, such as a Procomm Plus V4.7 package, for continuously and automatically dialing up and logging in as well as retrieving data from the various ACDs in the network. The paging software illustrated in FIG. 13 may be used to send out a display page based upon the occurrence of major and/or minor alarm conditions of the ACDs. The flow diagrams illustrated in FIG. 14 through 20 relate to processing of the data from the various ACDs in order to generate the various web pages illustrated in FIGs. 4 through 11. Exemplary software written in C<sup>+</sup> for automatically and continuously dialing up, logging and capturing data from the ACDs is provided in Appendix 6. Exemplary software written in C<sup>+</sup> for transmitting alarm status to a pager platform is provided in Appendix 7. Although the C<sup>+</sup> software illustrated in appendices 7 and 8 is written around the Procomm communications software, the principles of the present invention are applicable to virtually any standard communication software package.

Appendices 1 through 5 relate to the C<sup>+</sup> files for processing the data retrieved from the various ACDs. In particular, Appendix 1, entitled "micl.cfg" is a configuration file for the ACD 28, "Michigan-1". This file, "micl.cfg", identifies all of the equipment connected to the ACD 28, "Michigan-1". For example, with reference to Appendix 1, the file identifies the various inbound trunks from the long distance carriers 38 and 40 (FIG. 1), DID trunks, the intermachine trunks (IMT); the outbound trunks, the interactive voice response unit (IVR) trunks, the contact quality center (CQC) and the various EPNs connected to the ACD 28.

Appendix 2, entitled "micl.eqp", is an equipment file of all the various equipment connected to the ACD 28; (FIG. 1) "Michigan-1". As shown in Appendix 2, all of the equipment being monitored for the ACD 28 (FIG. 1), "Michigan-1" is identified in Appendix 2.

Appendix 3 relates to a trunk file for the ACD 28 (FIG. 1), "Michigan-1". For example, page 3 of Appendix 3 identifies Troy trunk group number 629. As shown on page 3

of Appendix 3, Troy trunk group 629 is shown to consist of circuits 004 E 17; 005 E 17; 006 A 17; 007 A 17 and 007 E 17, which corresponds to box 156 in FIG. 5A.

Appendix 4, entitled "mic1.gat", relates to the agent's skill level for the ACD 28 (FIG. 1), "Michigan-1". This file is used to provide the agent status web page as illustrated in FIG. 9.

Appendix 5, entitled "mic1.pn" is a load balance file. This file is used to provide the load balance web page as illustrated in FIG. 11. For example, as shown, this file is used to provide a load balance or occupancy level of the various port cabinets as well as the EPNs attached to the ACD 28; namely Bethune, Kalamazoo, Saginaw and Southfield.

Referring to FIG. 12 an exemplary flow diagrams for continuously, connecting to, logging into and capturing data from various ACDs is illustrated and generally identified with the reference numeral 200. Initially, an ACD is selected in step 202. The system then dials into and logs onto the selected ACD in step 204. After the system logs onto the selected ACD, the system waits for an answer back to determine if the connection was successful in step 206. If not, the system proceeds to step 209 and transmits and generates a carrier failure status indication in step 209. After a successful connection, the system begins capturing available data from the selected ACD in step 208 and successfully reports the carrier status in step 210. After the carrier status has been reported, trunk group traffic information is received from the selected ACD in step 212. Subsequently, the alarm status is transmitted in step 214.

In order to provide some level of reliability of the data transmitted from the ACD, the system may periodically check the carrier connection as illustrated in steps 216, 218, 220, 222 and 224. Anytime a carrier failure is detected, the system proceeds to step 208 and generates a carrier failure indication.

Assuming that the system is connected, the status health of the selected ACD is transmitted in 226, after the system checks to see if it is still connected to the carrier in step 218. The system retrieves the trunk group load traffic data in step 228. After again checking the connection of the carrier in step 220, the system retrieves the agent status data in step 230.

In step 232, the system retrieves the IVR port status after checking the connection of the carrier in step 222. Subsequently, in step 234 the system retrieves all login data and terminates the data capture from the ACD in step 236.

If any alarms have been detected, the system may be configured to transmit the alarm information to a paging platform, for example, as illustrated in FIG. 13 in step 238.

Subsequently, in step 240 the system selects the next ACD and loops back to step 202 to provide a continuous and automatic process for dialing up; logging into and capturing data from the next of the various ACDs in the network.

As indicated above, the system may be provided with the ability to provide major and minor alarm status to a paging platform. The software for transmitting the major and minor alarm information to a paging platform, for example, Procomm Plus, as illustrated in FIG. 13. This system generally identified with the reference numeral 250 continuously loops waiting for major and minor alarms to be detected as mentioned above in step 238. Once the alarm information is detected in step 252, the alarm data may be assembled in a batch file or other file suitable for transmission to a paging platform. Once the alarm data is assembled in a suitable file, it is continuously transmitted to the paging platform in steps 256 and 258 until the paging platform indicates to the system 250 that the page was successfully received.

The software for processing the data captured from the ACDs is illustrated in FIGs. 14-20. FIGs. 14A-C illustrates the main loop. Referring to FIGs. 14A-C, the system begins by initializing its arrays and opening files in steps 260 and 262. As known in the art, in order to determine the time corresponding to particular status information provided in an ACD, all ACDs are known to be provided with a real time clock. Depending on the location of the ACD, different ACDs in a network may be in different time zones. As such, in steps 264 and 266, the real time data from the ACDs is obtained and adjusted for the particular time zone for the ACD in processing. Subsequently, in step 268 the data obtained from the ACD, as discussed above in FIG. 12, is read in step 268. In steps 270-280, the system ascertains what type of data was captured. For example, in step 270 the system determines if system health status data was captured. If the data with system health status, the system proceeds to step 280 and processes the system held data as illustrated in FIG. 15.

If the data is not system health status, the system next determines in 272 whether the data is related to alarm information. If so, the system proceeds to step 282 and processes the alarm information in accordance with FIG. 16. If the data is not alarm information, the system next determines whether the captured data was hunt group or agent status information. If the captured data was hunt group information as determined in step 274, the system next proceeds to step 284 and processes the hunt groups information as set forth in FIG. 17. If the captured data was not hunt group information, the system next ascertains whether the data is login status in step 276. If so, the system proceeds to process the login information in step 286 as illustrated

in FIG. 18. If the data is not login status information, the system checks in step 278 to determine whether the data is trunk information. If so, the system processes the trunk group information in step 288 as set forth in FIG. 19. If the captured data is not system health status data; alarm information; hunt group information; login status or trunk group information, the system next ascertains whether the data capture was load balance information. If so, the system proceeds to step 290 and processes the load balance information as set forth in FIG. 20.

All of the data processing algorithms illustrated in FIGs. 15-20 return to the main loop. Subsequently, after all of the various data is processed as set forth in FIGs. 15 and 20. The system computes the summary information in steps 292 (FIG. 14B) and may load it into HTML files for displaying by way of the web pages illustrated in FIGs. 4-11. In particular, system summary information may be used for example to provide data for the ACD web page, for example, as illustrated in the data boxes 132, 134 illustrated in FIG. 4. In step 294, the total number of trunk groups is listed in column 140 in the data box 132. Next, in step 296, the total for the alarm status may be provided for the data box 134 (FIG. 4). Lastly, the summary information computed in step 292 to report the number of agents in step 298 and the blockage in step 300 from the information obtained in step 290 for display in the data box 136 in FIG. 4. In step 302, the system identifies the various login users to the ACD in the data box 136 in FIG. 4. For example, as shown in FIG. 4, the user "barnh" is identified. Next, in step 304 the system processes the system health. In particular, the system checks the occupancy and idle time for reporting in the data box 136 in the ACD home page illustrated in FIG. 4. In step 306, the system reports the contact quality status (CQC) in the data box 132 on the ACD home page 130 illustrated in FIG. 4. The CQC is treated like a trunk group and is reported as either "used" or "idle". Next, in step 308, the system reports the EPNs status. As mentioned above, the ACD web page includes an EPN hyperlink, linked to the various EPNs connected to the specific ACD, for example as illustrated in FIG. 7A and 7B. As discussed above, this data may be used to provide occupancy (i.e. usage) information for the various EPNs for example as illustrated in column 188 in FIG. 11.

As mentioned above, the system is adapted to provide an alarm log for each ACD. An exemplary alarm log is illustrated in FIG. 8. The information for the exemplary alarm log is generated by the system which forms a historical file for all alarms captured in step 310 as illustrated in FIG. 20. In step 312, the data collected above is used to create a dynamic HTML file to provide virtually real time data by way of a web page.

The software for processing the data captured from the ACD is illustrated in FIGS. 15-20. Referring to FIG. 15, the algorithm for processing the system health is illustrated. In step 314, 316 and 318, system checks data captured from the ACD relating to the occupancy of the ACD; idle time and whether the ACD is active. In addition, in step 320 the system checks to determine if the ACD has been blocked out for maintenance activity. The system returns in step 322 to the main loop to process additional data retrieved from the selected ACD.

Alarm information is processed as illustrated in FIG. 16. In step 324, the equipment associated with each alarm is determined. This equipment is then cross referenced in step 326 to process the data retrieved with the specific equipment associated with the alarm (i.e., EPN Saginaw), for example as illustrated in FIG. 8. Next, in step 328 the system identifies the alarms in the data box 134 (FIG. 4) of the ACD web page 130. The system returns in step 330.

A sub-system for processing hunt group information is illustrated in FIG. 17. The data processed by this sub system is used to create agent status web pages as illustrated in FIG. 9. Initially, in step 332 the system determines the status of each agent (i.e. skill level of agent; number of calls in the queue; longest wait for calls). In step 334, the agents are crossed reference to various gate groups, for example, the gates identified in FIG. 9. In step 326, the gates are grouped according to local assignments, for example as illustrated in FIG. 9. The information may be used to create a dynamic HTML file for display on a web page illustrated in FIG. 9. The system returns from step 340.

Login information may be processed as illustrated in FIG. 18. This information is used to identify the login users and the current system status data box 136 (FIG. 4) on the ACD home page 130. Initially this system determines the number of active logins in step 342. For example, as shown in FIG. 4, the user "rbarnh" is illustrated. In step 344, the connectivity is reported. As shown in the data box 136 in FIG. 4, the connectivity method is shown as dial up versus direct connect (i.e. local log-in). In step 346, keyboarding messaging commands are reported. The most recent input messages by the user provide a historical audit trail of activity. The system returns in step 348.

The system for processing load balance information is illustrated in FIG. 19. This information is used to provide the load balance information illustrated in column 192 of the traffic load web page illustrated in FIG. 2. Initially, in step 350 historical load balance data is read. This data is updated with the current load balance information in step 352 and used to



generate a HTML load balance file. In step 354, is used to generate the web pages illustrated in FIGs. 4 and 11. In step 356, blockage thresholds are reported. The blockage thresholds relate to 0% - 100% for growth potential of capacity exhaust). This data is used for the data box 136 of the ACD web page 130 illustrated in FIG. 4. The system returns in step 358.

As mentioned above, the system may be used to generate an alarm log, for example as illustrated in FIG. 8. Initially in step 362, the system determines whether the alarm is new. If so, it determines whether the alarm is a major alarm in step 364. If the system is a major alarm, the system logs the alarm for transmission to a display pager in step 366. If the alarm is not a major alarm or if the alarm is not a new alarm, the system proceeds to step 368 for display on the web page illustrated in FIG. 8. The system may also include a step 370 for printing current alarms. Subsequently, in step 372, the historical alarm log is updated. This information is used in step 374 to create a dynamic HTML file for display, for example in FIG. 8. The system returns in step 376.

Exemplary HTML code for the web pages illustrated in FIGs 4-11 is provided in appendices 9-16 as indicated in the table below.

Figure	HTML File Name	Appendix
4	mic1.htm	9
5	mic1011.htm	10
6	324230.htm	11
7	mic1epn.htm	12
8	mic1alm.htm	13
9	mic1agnt.htm	14
10	mic1E14.htm	15
11	mic1load.htm	16

It should be appreciated that a wide range of changes and modifications may be made to the embodiment of the invention as described herein. Thus, it is intended that the foregoing detailed descriptions be regarded as illustrative rather than limiting and that the following claims, including all equivalents, are intended to define the scope of the invention.

What is claimed is:

## CLAIMS

1. A system for automatically monitoring the status of one or more automatic call distributors (ACD), the system comprising:

means for automatically establishing a communication link with said one or more ACDs; and

means for automatically retrieving data from ACDs.

2. The system as recited in claim 1, wherein said establishing means includes means for automatically connecting to said ACD.

3. The system as recited in claim 2, wherein said establishing means includes means for automatically logging into said ACD.

4. The system as recited in claim 2, further including means for processing the data retrieved from said one or more ACDs defining processed data.

5. The system as recited in claim 4, further including means for generating one or more web pages containing data retrieved from said one or more ACDs.

6. The system as recited in claim 5, further including means for generating one or more HTML files of processed data for presentation on a web page.

7. The system as recited in claim 6, further including means for generating one or more HTML files of retrieved data for presentation on a web page.

8. The system as recited in claim 1, further including means for transmitting portions of said retrieved data to a pager platform.

9. A method for providing status information of one or more call distributors (ACD) comprising the steps of:

- (a) automatically and continuously retrieving data from said one or more ACDs;
- (b) displaying portions of said retrieved data on one or more first web pages.

10. The method as recited in claim 9, wherein step (a) includes the steps of:

- (c) automatically connecting to said one or more ACDs;
- (d) automatically logging into said one or more ACDs;
- (e) retrieving data from said one or more ACDs.

11. A method for providing status information of one or more call distributors (ACD) comprising the steps of:

- (a) automatically and continuously retrieving data from said one or more ACDs;
- (b) providing portions of said retrieved data to a paging platform.

12. The method as recited in claim 9, wherein step (a) includes the steps of:

- (c) automatically connecting to said one or more ACDs;
- (d) automatically logging into said one or more ACDs;
- (e) retrieving data from said one or more ACDs.

13. The method as recited in claim 9, further including the steps of :

- (c) providing other data not retrieved from the ACDs;
- (d) displaying said other data on one or more second web pages.

14. The method as recited in claim 12, wherein said second web pages are hyperlinked to said first web page.

15. The method as recited in claim 12, wherein said other data is static data.

16. The method as recited in claim 14, wherein said static data is trunk inventory record keeping system (TIRKS) data.

### **ABSTRACT OF THE DISCLOSURE**

A monitoring tool for use with one or more automatic call distributors (ACD) which automatically and continuously polls or queries the ACDs to monitor not only alarm conditions but other conditions, such as agent staffing levels, call answering time, call routing and traffic conditions. Such continuous and automatic monitoring and querying of the ACD in accordance with the present invention is thus able to improve the overall efficiency of such ACDs by improving the service response time of such ACDs. In accordance with one aspect of the invention, the status records of the ACDs maybe directed to a website, for example, on an enterprise Intranet website to enable any of the company representatives with access rights to access the performance of the ACD network from any location. Other data, such as the trunk inventory record keeping system (TIRKS) may also be displayed on the website to facilitate troubleshooting of alarm conditions. Another aspect of the invention is the ability to provide automatic paging for predetermined alarm status condition.

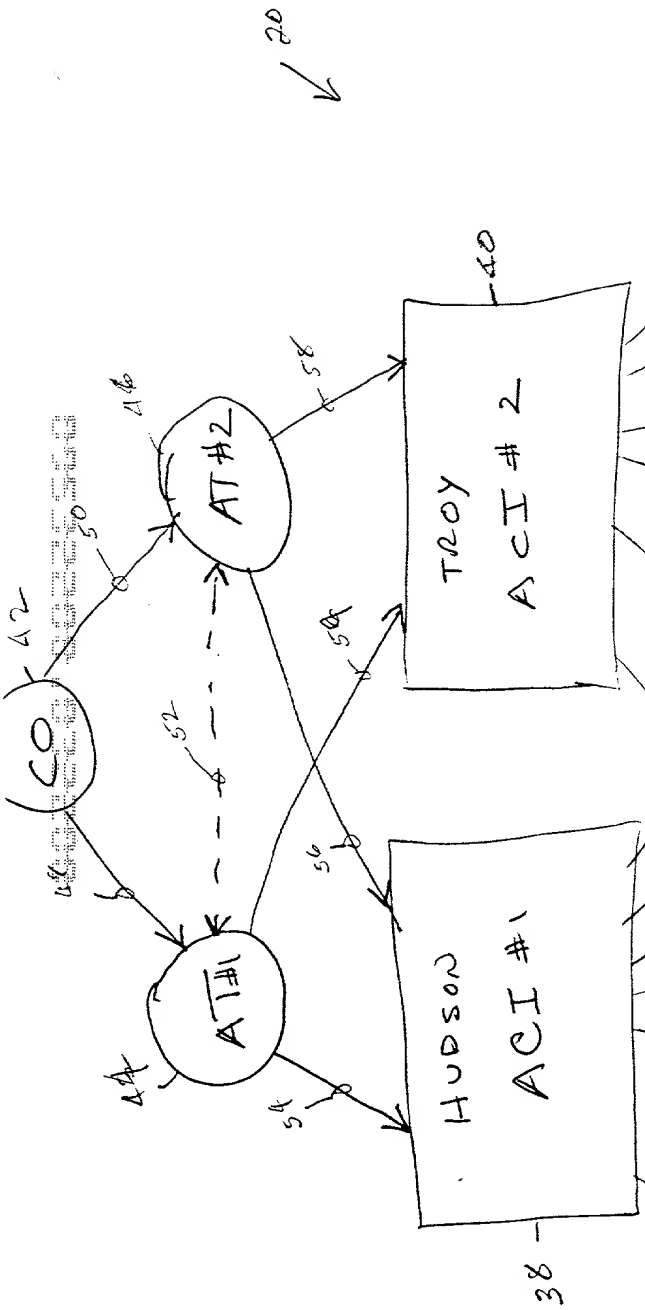


FIG 1

FIG 1

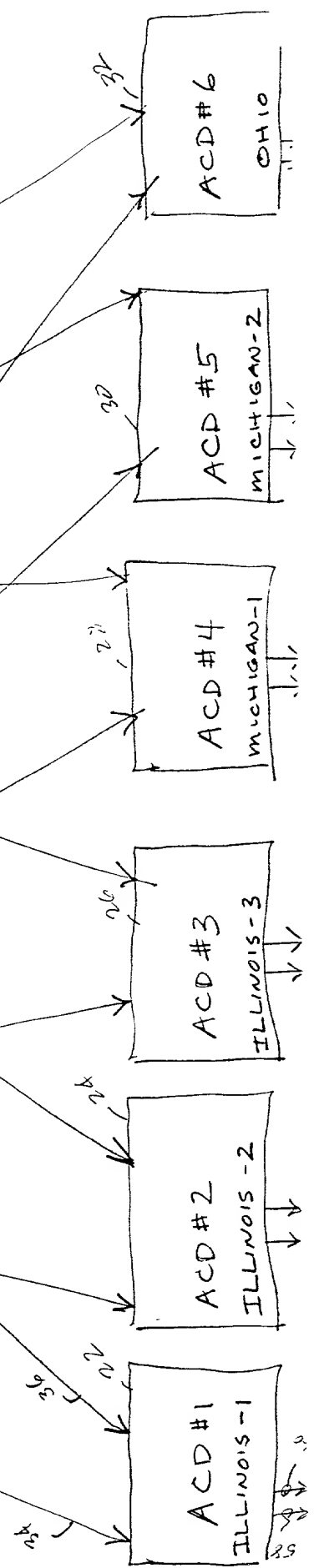


FIG 2

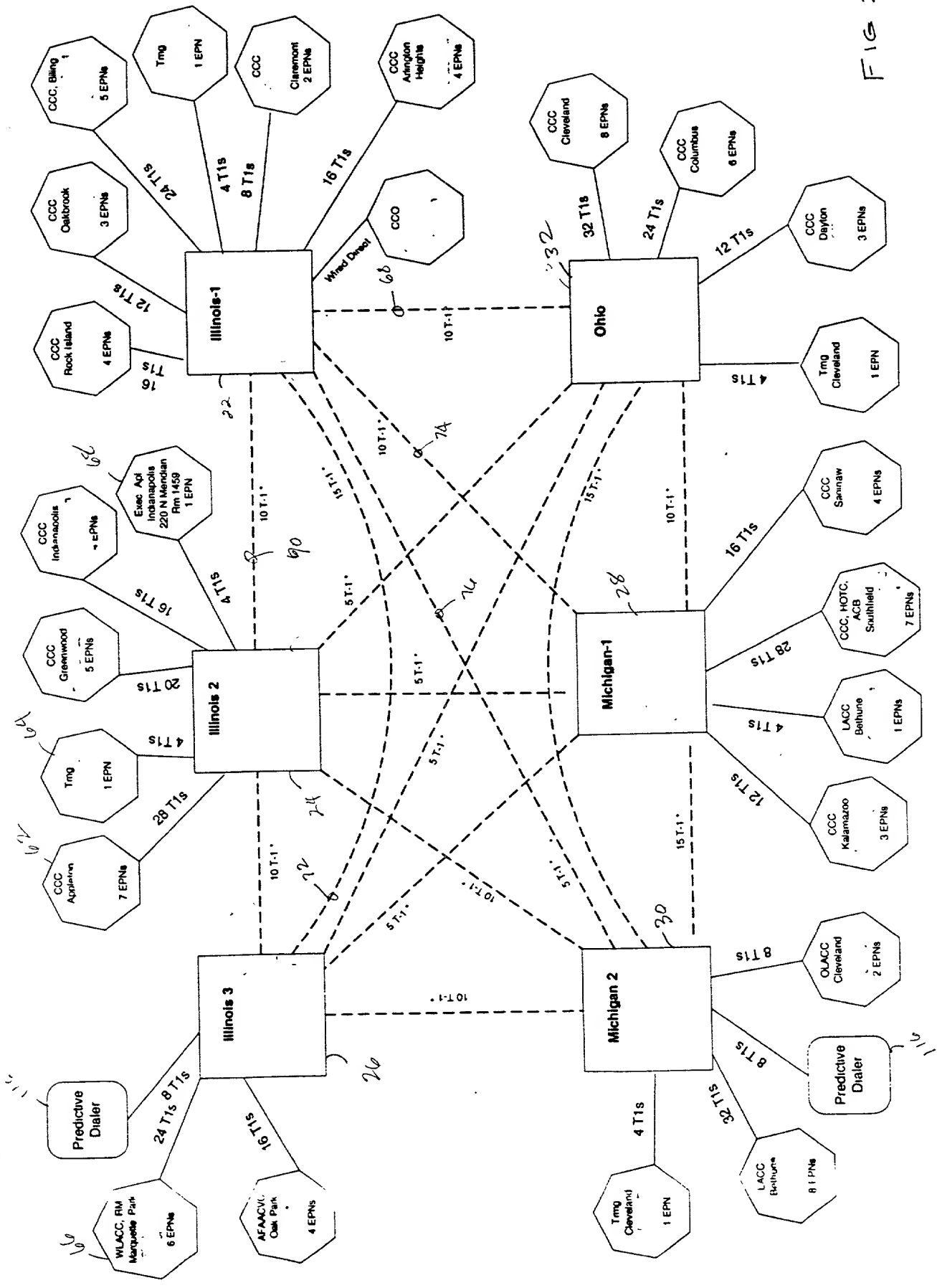


FIG 3

CUSTOMER

Telephone

INQUIRY

CICC

NET SVC DATABASE

END OFFICE

Telephone

TANDEM OFFICE

AGI

VDN

800 SCP DBASE

38, 40

34, 36

TEOX

22, 24, 26, 28, 30, 32

T1's

SNA3270's

SNA3270's

ASAI TCP/IP LINK

OPENET

OPENET

Token Ring

DATA FLOW

VOICE

CM VI

Workstation

Workstation

CM VI

CM VI

CCC

Token Ring

DATA FLOW

VOICE

CM VI

Workstation

Workstation

CM VI

FIG 3

100

FIG 3

# - Lucent ACD Status -

(as of Thu Dec 30 09:12:56 1999 CDT)

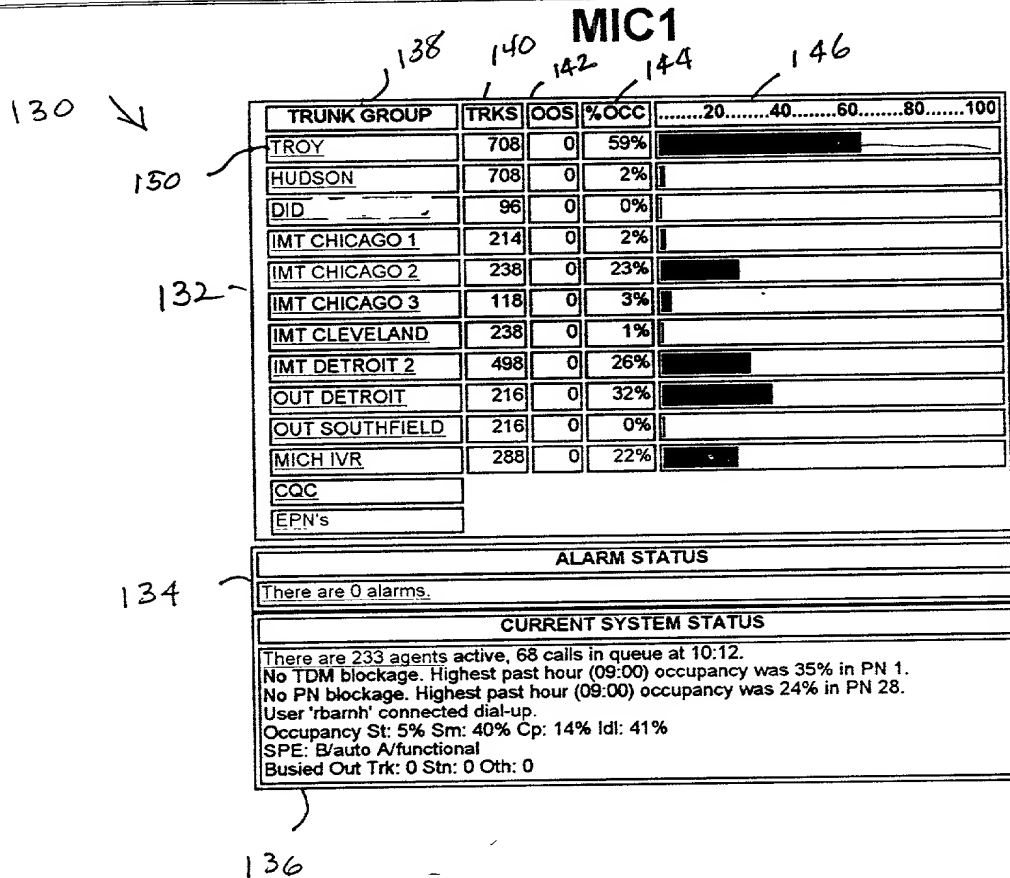


FIG 4



### 11:ACI TROY

TGN	OE	CKT ID	ALARM STATUS	CSU_A	CSU_Z	MISC
011	003 A 19	HCGS 324230	None	n/a	n/a	TROY TGN 623
	004 A 18	HCGS 324330	None	n/a	n/a	
	002 B 13	HCGS 324331	None	n/a	n/a	
	004 A 11	HCGS 324332	None	n/a	n/a	
	001 D 09	HCGS 324333	None	n/a	n/a	

### 13:ACI TROY

TGN	OE	CKT ID	ALARM STATUS	CSU_A	CSU_Z	MISC
013	005 E 15	HCGS 324339	None	n/a	n/a	TROY TGN 626
	006 E 15	HCGS 324340	None	n/a	n/a	
	005 E 11	HCGS 324341	None	n/a	n/a	
	006 E 11	HCGS 324342	None	n/a	n/a	
	007 E 10	HCGS 324343	None	n/a	n/a	

### 15:ACI TROY

TGN	OE	CKT ID	ALARM STATUS	CSU_A	CSU_Z	MISC
015	003 A 17	HCGS 324349	None	n/a	n/a	TROY TGN 627
	004 A 17	HCGS 324350	None	n/a	n/a	
	004 A 12	HCGS 324351	None	n/a	n/a	
	005 A 12	HCGS 324352	None	n/a	n/a	
	006 A 12	HCGS 324353	None	n/a	n/a	

### 17:ACI TROY

TGN	OE	CKT ID	ALARM STATUS	CSU_A	CSU_Z	MISC
017	004 E 17	HCGS 324483	None	n/a	n/a	TROY TGN 629
	005 E 17	HCGS 324484	None	n/a	n/a	
	006 A 17	HCGS 324485	None	n/a	n/a	
	007 A 17	HCGS 324486	None	n/a	n/a	
	007 E 17	HCGS 324487	None	n/a	n/a	

### 18:ACI TROY

FIG 5A

TGN	OE	CKT ID	ALARM STATUS	CSU_A	CSU_Z	MISC
018	004 E 18	HCGS 324488	None	n/a	n/a	TROY TGN 624
	005 E 18	HCGS 324489	None	n/a	n/a	
	006 E 18	HCGS 324490	None	n/a	n/a	
	007 A 18	HCGS 324491	None	n/a	n/a	
	007 E 18	HCGS 324492	None	n/a	n/a	

## 19:ACI TROY

TGN	OE	CKT ID	ALARM STATUS	CSU_A	CSU_Z	MISC
019	004 E 19	HCGS 324493	None	n/a	n/a	TROY TGN 634
	005 E 19	HCGS 324494	None	n/a	n/a	
	004 E 13	HCGS 324495	None	n/a	n/a	
	005 E 13	HCGS 324496	None	n/a	n/a	
	006 E 14	HCGS 324497	None	n/a	n/a	

FIG 5B

Call ACI on 1-800-441-1234, choose option 2 for trouble referrals.

CIRCUIT DETAILS

```

CTK S /HCGS/324230 /MB A TROYMIUOW00 Z DTRTMIBL6CD
CLO MIS123927001 DV ACT IE IND PRQ SSP TSP MSC N MCO DTRTMIBHSHC
CAC SVF2BP3 CUST AMERITECHCOMMUNICATI PULS -- MW B EML OBJ PG 01 OF 04
M SEQ A LOCATION SV EQPT/FAC RR/TYPE UNIT A TLP Z SBDV/MISC TP
002 E THIS IS A PRO-CDS DESIGN N
004 I MODEL = 8589 DESI GN = 2 N
006 X TROYMIUOW00 **LINE C ODE=B8ZS** N
008 X TROYMIUOW00 **SIGNAL CODE=ESF* * N
010 I PROCESSED BY FLOWTHRU ID:HICAP-A VERS: 002 STAMP :041295 130406 N
012 TROYMIUOW00 04DS6/ 44 / NI
014 HCG- NC
016 [REDACTED] STA ADDR N
018 TROY EU CITY N
020 MI EU STATE N
022 W TROYMIUOW00 DEMARC S
024 TROYMIUOW00 POI XA
026 W X4 806 T3 2 IC X#
028 OWNER=B-BX XX
030 E=DTRTMIBLK07 XX
032 MB 0094.5 MI 0094.5 ZL D#
034 DTRTMIBLK07 EE31F F07/07 /0397 XZ
036 DTRTMIBLK06 T3MAE412 040473.11 1916 F66/13 /08 /4 XM
CTK S /HCGS/324230 /MB A TROYMIUOW00 Z DTRTMIBL6CD
CLO MIS123927001 DV ACT IE IND PRQ SSP TSP MSC N MCO DTRTMIBHSHC
CAC SVF2BP3 CUST AMERITECHCOMMUNICATI PULS -- MW B EML OBJ PG 02 OF 04
M SEQ A LOCATION SV EQPT/FAC RR/TYPE UNIT A TLP Z SBDV/MISC TP
038 DTRTMIBLK07 T1MBDX01 040483.02B ACSA XH
040 DTRTMIBLK07 T1MBDY01 040482.02C CSSA2 XH
042 DTRTMIBLK07 T1MBDZ01 040482.02B ESSA2 XH
044 DTRTMIBLK07 T1MBD901 040480.12A 1 XH
046 DTRTMIBLK07 T1MBD9U1 040480.12A 1-17 XH
048 DTRTMIBLK07 DCS5NNNSC XF
050 DTRTMIBLK07 T1MBD9Y1 040482.02B 0397 F66/12 /07 /4 XM
052 DTRTMIBLK07 F07/07 /0397 EX
054 E DTRTMIBLK07 /K07 /FE/DAB/ 01/ N1
056 E DTRTMIBLK07 035-16 / N2
058 E DTRTMIBLK07 T1 / N3
060 DTRTMIBLK07 T1MBDX01 040483.02B ACSA EH
062 DTRTMIBLK07 T1MBDY01 040482.01C CSSA1 EH
064 DTRTMIBLK07 T1MBDZ01 040482.01B ESSA1 EH
066 DTRTMIBLK07 T1MBD801 040481.03A 1 EH
068 DTRTMIBLK07 T1MBD831 040481.03A 1-27 EH
070 DTRTMIBLK07 DCS5NNNF7 F#
072 W DTRTMIBLK07 T1MBD8S1 040482.01B 035-16 F93/03 /02 /44 EU
CTK S /HCGS/324230 /MB A TROYMIUOW00 Z DTRTMIBL6CD
CLO MIS123927001 DV ACT IE IND PRQ SSP TSP MSC N MCO DTRTMIBHSHC
CAC SVF2BP3 CUST AMERITECHCOMMUNICATI PULS -- MW B EML OBJ PG 03 OF 04
M SEQ A LOCATION SV EQPT/FAC RR/TYPE UNIT A TLP Z SBDV/MISC TP
074 DTRTMIBLK07 F07/07 /035 EX
076 DTRTMIBLK07 SD=TSLS- 5500 EX
078 DTRTMIBLK07 $FEPMTYP E=ANSI403; FEPM= EX
080 DTRTMIBLK07 ON;DS1 F ORMAT MUST =ESF; EX
082 DTRTMIBLK07 NEPM=OFF EX
084 DTRTMIBL NCT2YGEEE F#
086 W DTRTMIBL T1ML1971 11CAB1 0114 F93/07 /06 /14 EM
088 W DTRTMIBL T1IUJ222 IP03191235 P

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FIG 6A

090	DTRTMIBL	\$**PM SM ARTJACK**	S1=NA	PX
092	DTRTMIBL	,S2-1=DI	SABLE,S2-2 =DISA	PX
094	DTRTMIBL	BLE,S2-3 =DISABLE,S	2-4=E	PX
096	DTRTMIBL	NABLE,S2 -5=ESF,S3=	7.5D.	PX
098	DTRTMIBL	B,S4=SHO RT,S5=DISA	BLE,S	PX
100	DTRTMIBL	6=ON,S7=	ENABLE	PX
102	W DTRTMIBL6CD	DEMARC		S
104			STA ADDR	N
106		11	EU FLR	N
108		1129	EU ROOM	N
CKT S	/HCGS/324230	/MB	A TROYMIUOW00 Z	DTRTMIBL6CD
CLO MIS	123927001	DV	ACT IE IND	PRO SSP TSP
CAC SVF2BP3	CUST AMERITECHCOMMUNICATI	PULS --	MW B EML OBJ	PG 04 OF 04
M SEQ A	LOCATION	SV EQPT/FAC	RR/TYPE	UNIT
				A TLP Z
				SBDV/MISC
110		DETROIT		EU CITY
112		MI		EU STATE
114	DTRTMIBL6CD	04DU9/	1SN/	NI
116	DTRTMIBL6CD	DTRTMIBL 6CD	COMSUM ER	NX

FIG 6B

## EPN:BETHUNE (IT)

EPN	HOST PORT	CKT ID	ALARM STATUS	CSU_A	CSU_Z	REMOTE PORT
14	001 C 12 A	DHDZ 791565	None	144.151.178.37	n/a	008 A 02 A
	001 C 12 B	DHDZ 791566	None	144.151.178.38	n/a	008 A 02 B
	001 C 12 C	DHDZ 791567	None	144.151.178.39	n/a	008 A 02 C
	001 C 12 D	DHDZ 791568	None	144.151.178.40	n/a	008 A 02 D

## EPN:KALAMAZOO

EPN	HOST PORT	CKT ID	ALARM STATUS	CSU_A	CSU_Z	REMOTE PORT
25	001 C 11 A	DHDZ 708222	None	144.151.178.57	n/a	020 A 02 A
	001 C 11 B	DHDZ 708223	None	144.151.178.58	n/a	020 A 02 B
	001 C 11 C	DHDZ 708224	None	144.151.178.59	n/a	020 A 02 C
	001 C 11 D	DHDZ 708225	None	144.151.178.60	n/a	020 A 02 D
26	001 E 01 A	DHDZ 708226	None	144.151.178.149	n/a	021 A 02 A
	001 E 01 B	DHDZ 708227	None	144.151.178.150	n/a	021 A 02 B
	001 E 01 C	DHDZ 708228	None	144.151.178.151	n/a	021 A 02 C
	001 E 01 D	DHDZ 708229	None	144.151.178.152	n/a	021 A 02 D
27	002 B 11 A	DHDZ 708230	None	144.151.178.153	n/a	022 A 02 A
	002 B 11 B	DHDZ 708231	None	144.151.178.154	n/a	022 A 02 B
	002 B 11 C	DHDZ 708232	None	144.151.178.155	n/a	022 A 02 C
	002 B 11 D	DHDZ 708233	None	144.151.178.156	n/a	022 A 02 D

## EPN:SAGINAW

EPN	HOST PORT	CKT ID	ALARM STATUS	CSU_A	CSU_Z	REMOTE PORT
28	002 E 01 A	DHDZ 708234	None	144.151.178.25	n/a	023 A 02 A
	002 E 01 B	DHDZ 708235	None	144.151.178.26	n/a	023 A 02 B
	002 E 01 C	DHDZ 708236	None	144.151.178.27	n/a	023 A 02 C
	002 E 01 D	DHDZ 708237	None	144.151.178.28	n/a	023 A 02 D
29	002 E 21 A	DHDZ 708238	None	144.151.178.41	n/a	024 A 02 A
	002 E 21 B	DHDZ 708239	None	144.151.178.42	n/a	024 A 02 B
	002 E 21 C	DHDZ 708240	None	144.151.178.43	n/a	024 A 02 C
	002 E 21 D	DHDZ 708241	None	144.151.178.44	n/a	024 A 02 D
30	003 E 01 A	DHDZ 708242	None	144.151.178.121	n/a	025 A 02 A
	003 E 01 B	DHDZ 708243	None	144.151.178.122	n/a	025 A 02 B
	003 E 01 C	DHDZ 708244	None	144.151.178.123	n/a	025 A 02 C
	003 E 01 D	DHDZ 708245	None	144.151.178.124	n/a	025 A 02 D
31	003 E 21 A	DHDZ 708246	None	144.151.178.137	n/a	026 A 02 A
	003 E 21 B	DHDZ 708247	None	144.151.178.138	n/a	026 A 02 B
	003 E 21 C	DHDZ 708248	None	144.151.178.139	n/a	026 A 02 C
	003 E 21 D	DHDZ 708249	None	144.151.178.140	n/a	026 A 02 D

## EPN:SOUTHFIELD

EPN	HOST PORT	CKT ID	ALARM STATUS	CSU_A	CSU_Z	REMOTE PORT
17	001 D 10 A	DHDZ 708302	None	144.151.178.17	n/a	013 A 02 A
	001 D 10 B	DHDZ 708303	None	144.151.178.18	n/a	013 A 02 B
	001 D 10 C	DHDZ 708304	None	144.151.178.19	n/a	013 A 02 C
	001 D 10 D	DHDZ 708305	None	144.151.178.20	n/a	013 A 02 D
18	001 D 11 A	DHDZ 708306	None	144.151.178.33	n/a	014 A 02 A
	001 D 11 B	DHDZ 708307	None	144.151.178.34	n/a	014 A 02 B
	001 D 11 C	DHDZ 708308	None	144.151.178.35	n/a	014 A 02 C
	001 D 11 D	DHDZ 708309	None	144.151.178.36	n/a	014 A 02 D
19	002 A 11 A	DHDZ 708310	None	144.151.178.49	n/a	015 A 02 A
	002 A 11 B	DHDZ 708311	None	144.151.178.50	n/a	015 A 02 B
	002 A 11 C	DHDZ 708312	None	144.151.178.51	n/a	015 A 02 C
	002 A 11 D	DHDZ 708313	None	144.151.178.52	n/a	015 A 02 D
20	002 B 10 A	DHDZ 708314	None	144.151.178.113	n/a	016 A 02 A
	002 B 10 B	DHDZ 708315	None	144.151.178.114	n/a	016 A 02 B
	002 B 10 C	DHDZ 708316	None	144.151.178.115	n/a	016 A 02 C
	002 B 10 D	DHDZ 708317	None	144.151.178.116	n/a	016 A 02 D
21	003 A 10 A	DHDZ 708318	None	144.151.178.129	n/a	017 A 02 A
	003 A 10 B	DHDZ 708319	None	144.151.178.130	n/a	017 A 02 B
	003 A 10 C	DHDZ 708320	None	144.151.178.131	n/a	017 A 02 C
	003 A 10 D	DHDZ 708321	None	144.151.178.132	n/a	017 A 02 D
22	003 A 11 A	DHDZ 708322	None	144.151.178.145	n/a	018 A 02 A
	003 A 11 B	DHDZ 708323	None	144.151.178.146	n/a	018 A 02 B
	003 A 11 C	DHDZ 708324	None	144.151.178.147	n/a	018 A 02 C
	003 A 11 D	DHDZ 708325	None	144.151.178.148	n/a	018 A 02 D

FIG 7B

# - MIC1 Alarm Log -

LATEST [TIMES] ALARM MESSAGE.....

12/29 13:30	[1]	12/29 13:29 ->03E12 SNC-LINK MINOR
12/21 21:29	[6]	12/19 14:02 ->05A0401 PGATE-PT MINOR
12/21 04:35	[6]	12/21 01:27 ->37_A-PNC FIBER-LK MINOR
12/21 04:34	[6]	12/21 01:35 ->35_A-PNC FIBER-LK MAJOR
12/21 04:34	[6]	12/21 01:35 ->37_A-PNC FIBER-LK MAJOR
12/21 04:34	[6]	12/21 01:26 ->25A0101 SYS-LINK MINOR (@EPN 30 - SAGINAW)
12/21 04:34	[4]	12/21 01:37 ->38_A-PNC FIBER-LK MAJOR
12/21 04:34	[3]	12/21 01:35 ->26A0101 SYS-LINK MINOR (@EPN 31 - SAGINAW)
12/21 04:21	[7]	12/21 01:26 ->36_A-PNC FIBER-LK MINOR
12/21 04:21	[6]	12/21 01:26 ->38_A-PNC FIBER-LK MINOR
12/21 04:21	[6]	12/21 01:26 ->35_A-PNC FIBER-LK MINOR
12/21 04:20	[5]	12/21 01:40 ->03E21C DS1-FAC MINOR (EPN 31 - SAGINAW)
12/21 04:20	[5]	12/21 01:27 ->PN_28 EXP-PN MAJOR
12/21 04:20	[5]	12/21 01:35 ->36_A-PNC FIBER-LK MAJOR
12/21 04:20	[4]	12/21 01:26 ->23A0101 SYS-LINK MINOR (@EPN 28 - SAGINAW)
12/21 04:20	[3]	12/21 01:39 ->PN_31 EXP-PN MAJOR
12/21 04:20	[3]	12/21 01:41 ->03E20 SN-CONF MAJOR (EPN 31 - SAGINAW)
12/21 04:20	[4]	12/21 01:35 ->PN_30 EXP-PN MAJOR
12/21 04:20	[2]	12/21 01:40 ->02E20 SN-CONF MAJOR (EPN 29 - SAGINAW)
12/21 04:18	[2]	12/21 01:26 ->26A01 EXP-INTF MINOR (@EPN 31 - SAGINAW)
12/21 04:18	[2]	12/21 01:29 ->24A0101 SYS-LINK MINOR (@EPN 29 - SAGINAW)
12/21 02:15	[4]	12/21 01:40 ->02E01A DS1-FAC MINOR (EPN 28 - SAGINAW)
12/21 02:15	[3]	12/21 01:35 ->03E03 SN-CONF MAJOR (EPN 30 - SAGINAW)
12/21 02:10	[3]	12/21 01:37 ->PN_29 EXP-PN MAJOR
12/21 02:10	[3]	12/21 01:39 ->03E21D DS1-FAC MINOR (EPN 31 - SAGINAW)
12/21 02:05	[2]	12/21 01:44 ->25A01 EXP-INTF MINOR (@EPN 30 - SAGINAW)
12/21 02:03	[2]	12/21 01:39 ->02E21A DS1-FAC MINOR (EPN 29 - SAGINAW)
12/21 02:01	[2]	12/21 01:42 ->02E03 SN-CONF MAJOR (EPN 28 - SAGINAW)
12/21 02:01	[2]	12/21 01:39 ->02E21B DS1-FAC MINOR (EPN 29 - SAGINAW)
12/21 02:01	[2]	12/21 01:39 ->02E21D DS1-FAC MINOR (EPN 29 - SAGINAW)

## - MIC1 Agent Status -

(as of Thu Dec 30 08:35:25 1999 CDT)

170

SPLIT / SKILL	AGENTS ACTIVE	QUEUED CALLS	LONGEST WAIT	GATE NAME
99	2	0	0:00	SYSTEM PORTS
200	115	57	3:44	STHFLD UNIV 200
204	1	0	0:00	MI CSST
231	3	0	0:00	HOTC INBOUND
256	4	0	0:00	MI ASST COACH
260	1	0	0:00	KALAMAZOO ACE
263	1	0	0:00	SOUTHFIELD ACE
	127	57	3:44	** TOTALS **

172

174

176

FIG 9



# BETHUNE - EPN 14

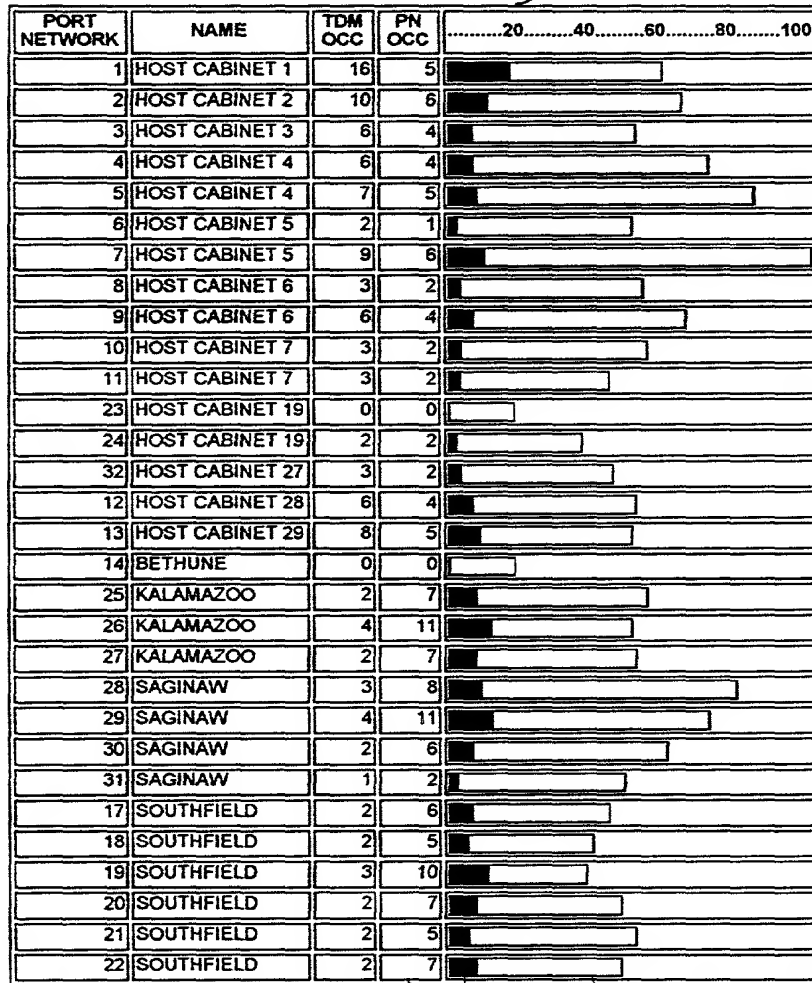
(Cabinet 8)

PORT/CARD	08A03	08A04	08A05	08A06
1	59400	59424	--	--
2	59401	59425	--	--
3	59402	59426	--	--
4	59403	59427	--	--
5	59404	59428	--	--
6	59405	59429	--	--
7	59406	59430	--	--
8	59407	59431	--	--
9	59408	59432	--	--
10	59409	59433	--	--
11	59410	59434	--	--
12	59411	59435	--	--
13	59412	59436	--	--
14	59413	59437	--	--
15	59414	59438	--	--
16	59415	59439	--	--
17	59416	59440	--	--
18	59417	59441	--	--
19	59418	59442	--	--
20	59419	--	--	--
21	59420	--	--	--
22	59421	--	--	--
23	59422	--	--	--
24	59423	--	--	--

FIG 10

# - MIC1 Traffic Load -

(Past Hour / Peak for Thu Dec 30 08:35:25 1999 CDT)



180 182 184 186 190 192

FIG 11

200

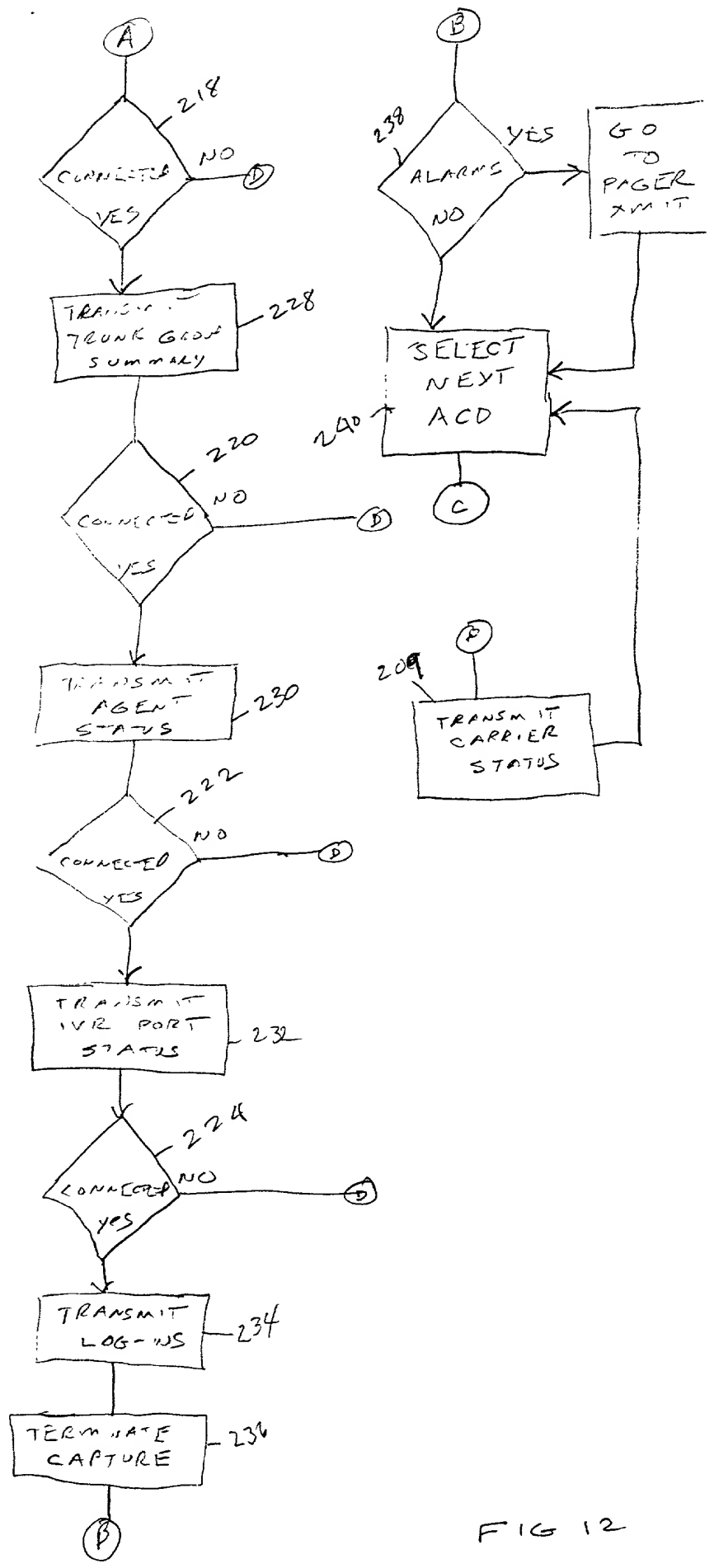
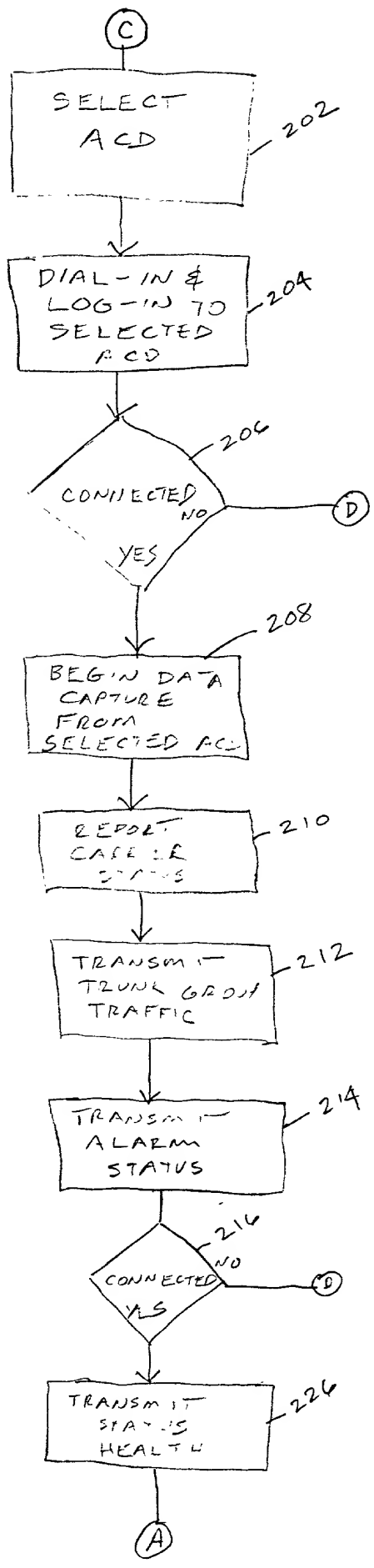


FIG 12

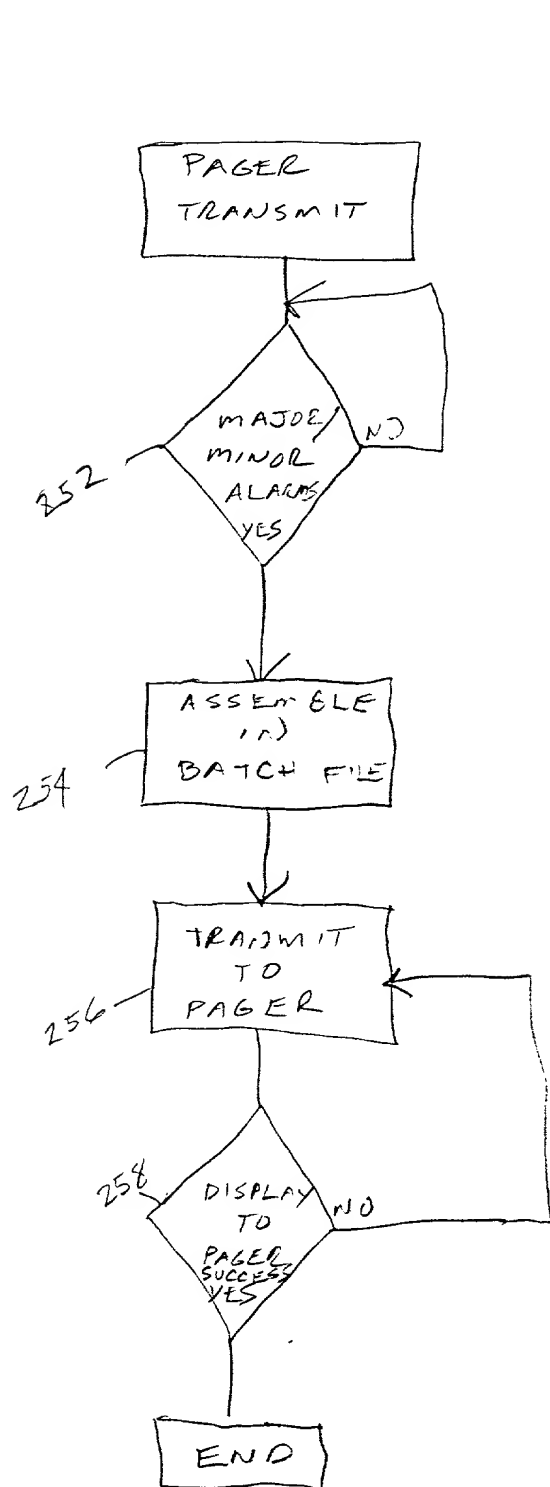


FIG 13

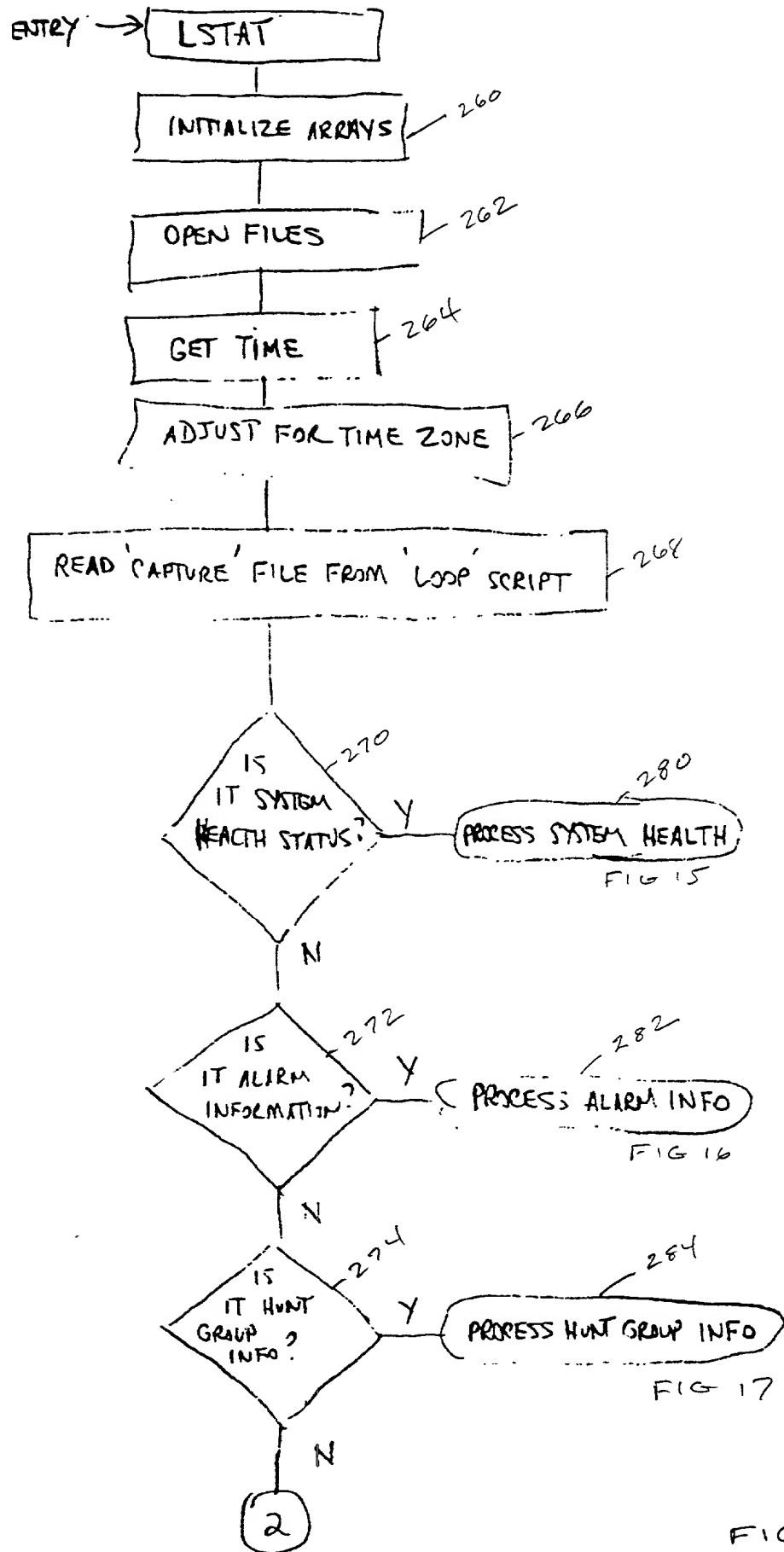


FIG 14A

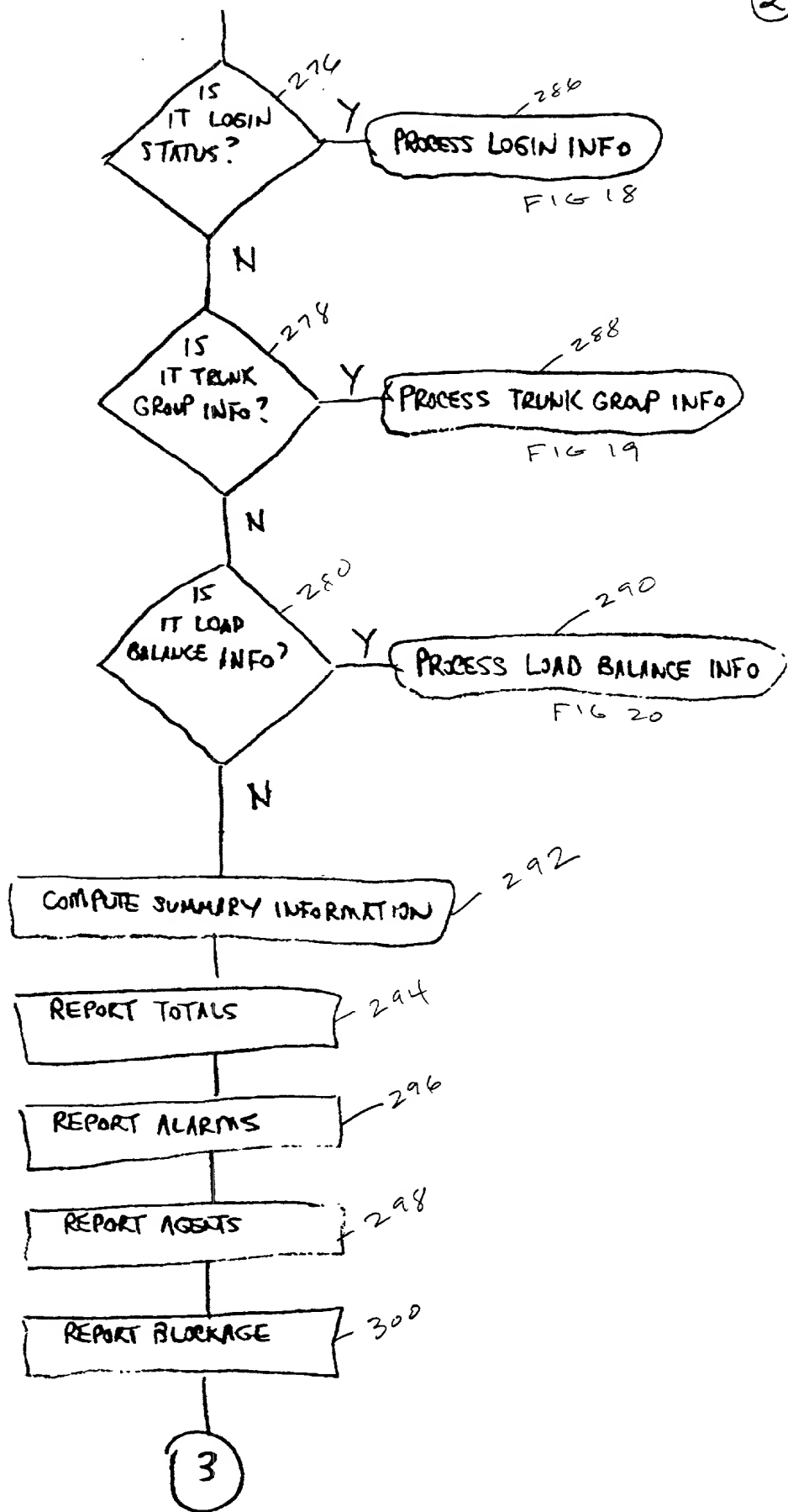


FIG 14B

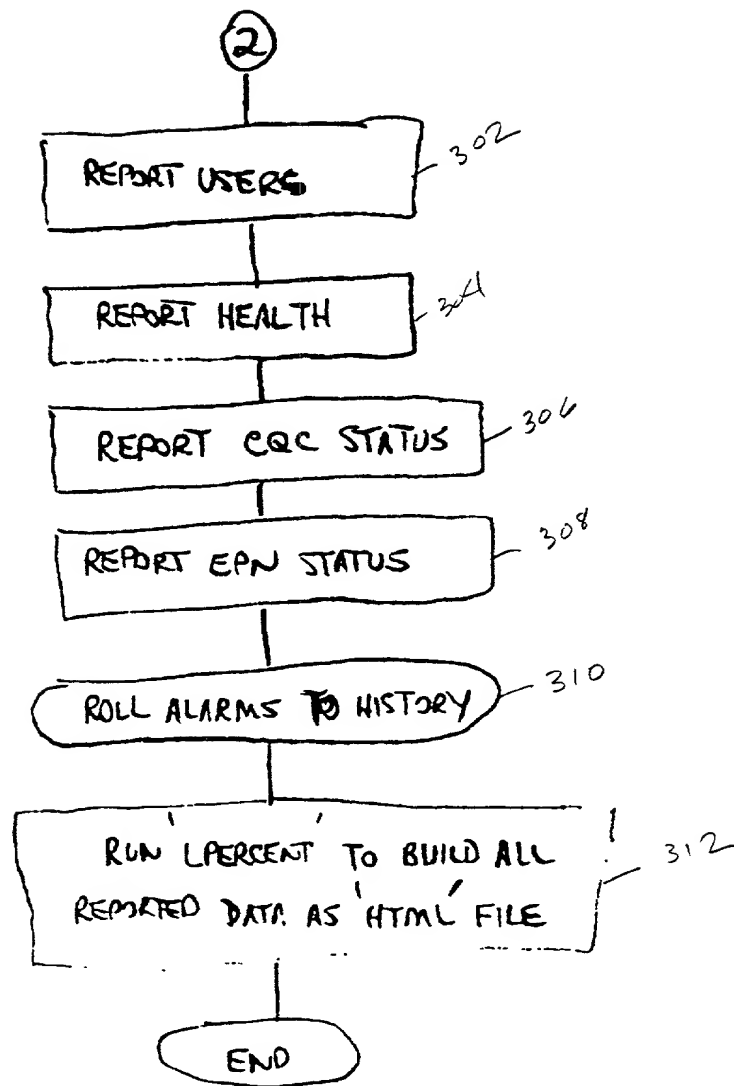


FIG 14C

4

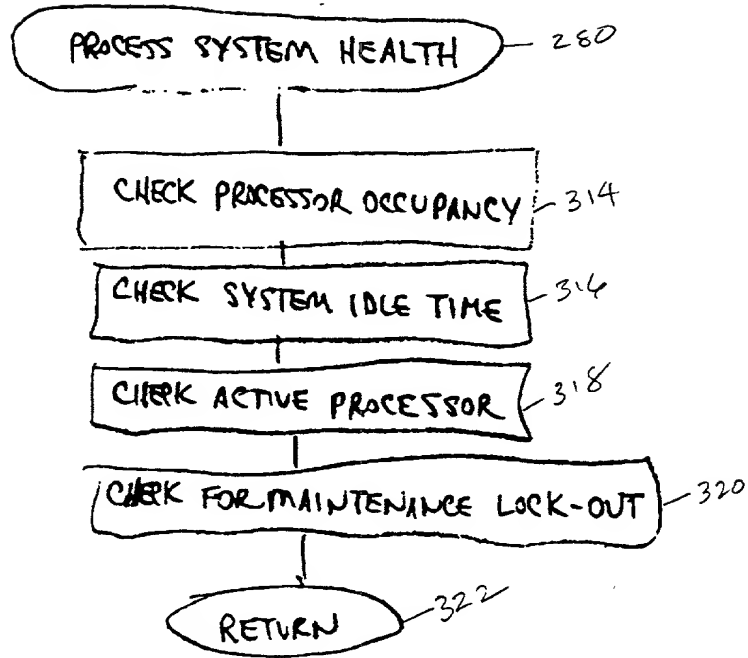


FIG 15



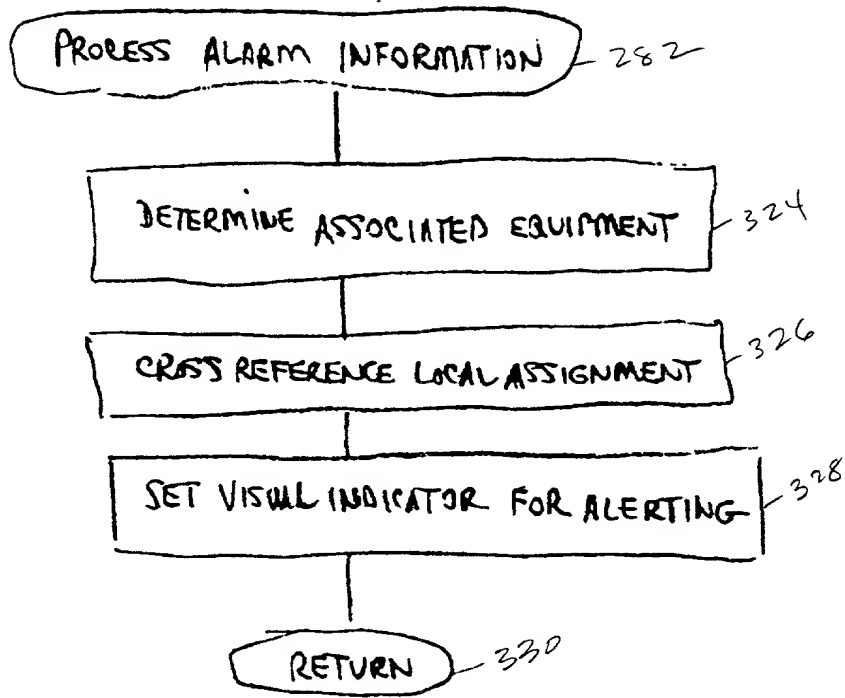


FIG 16

(6)

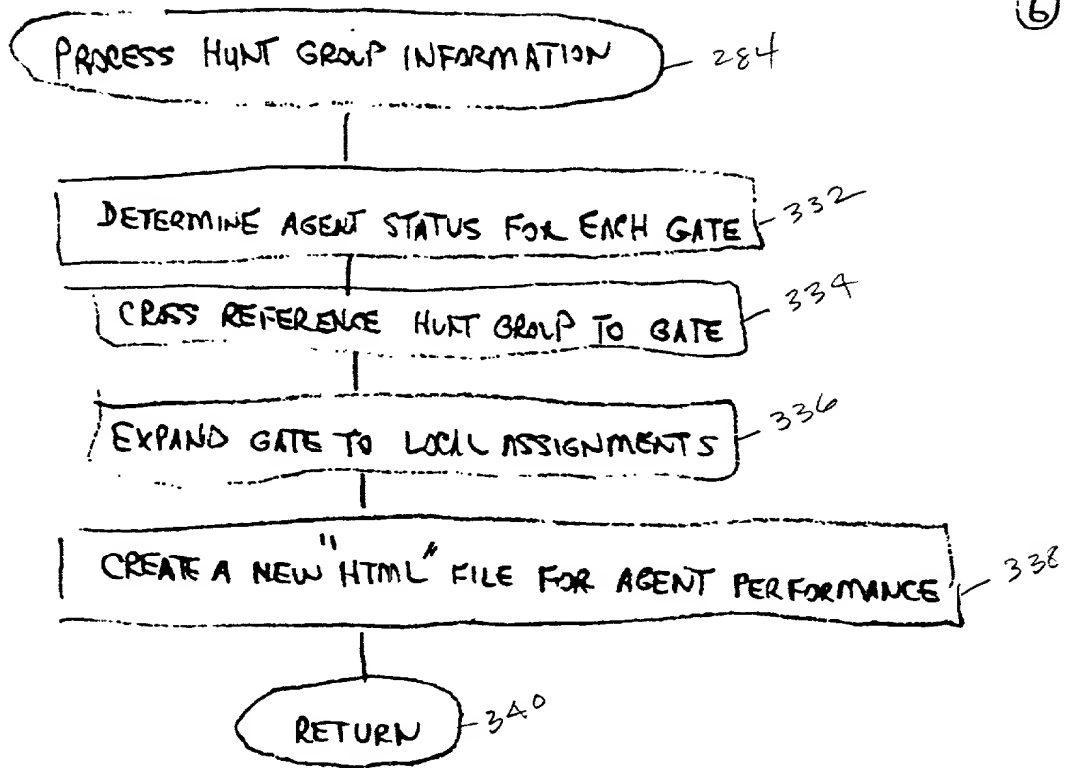


FIG 17

7

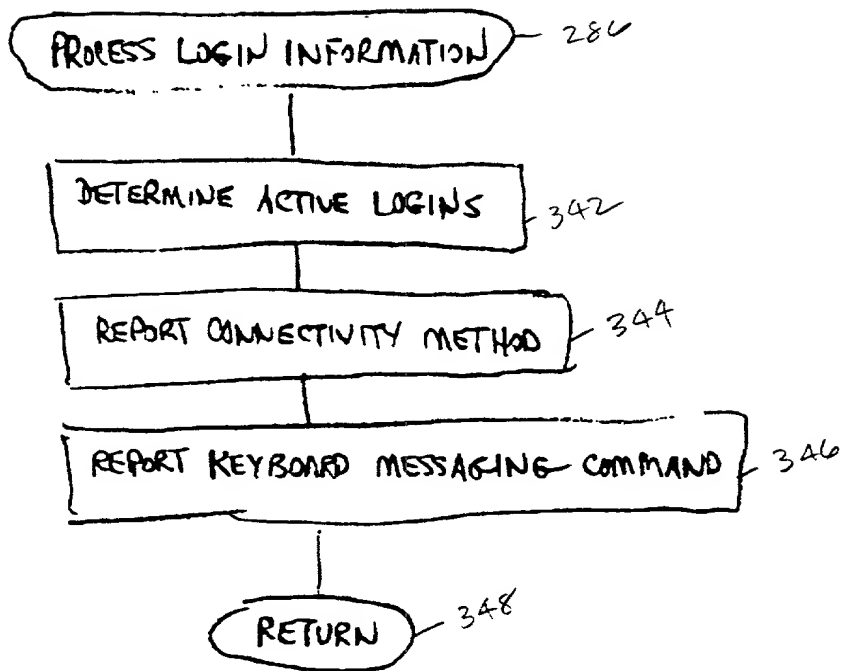


FIG 18

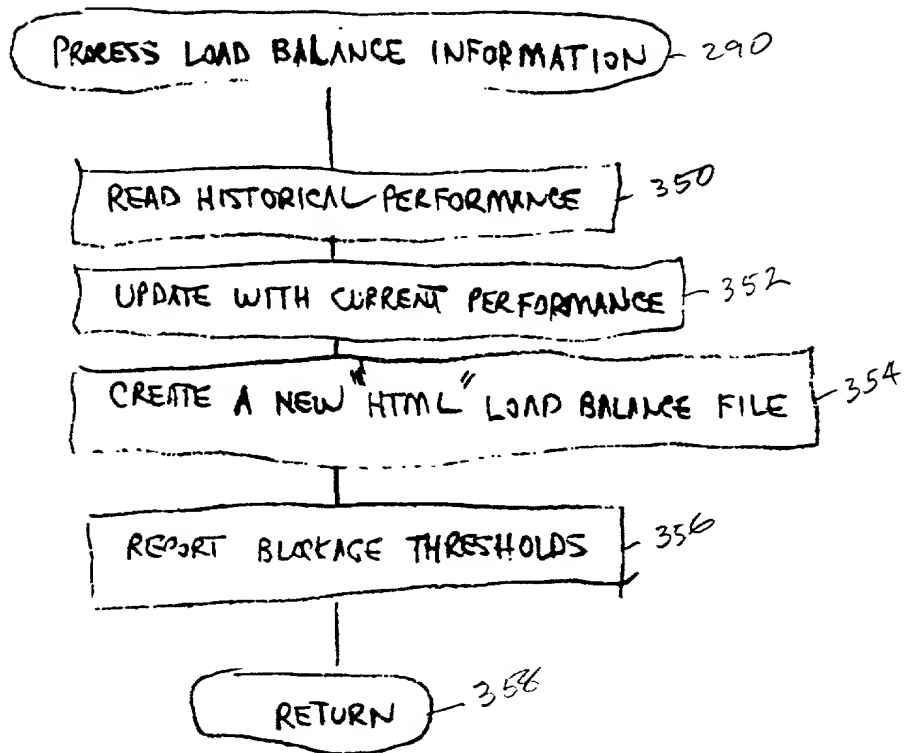


FIG 19

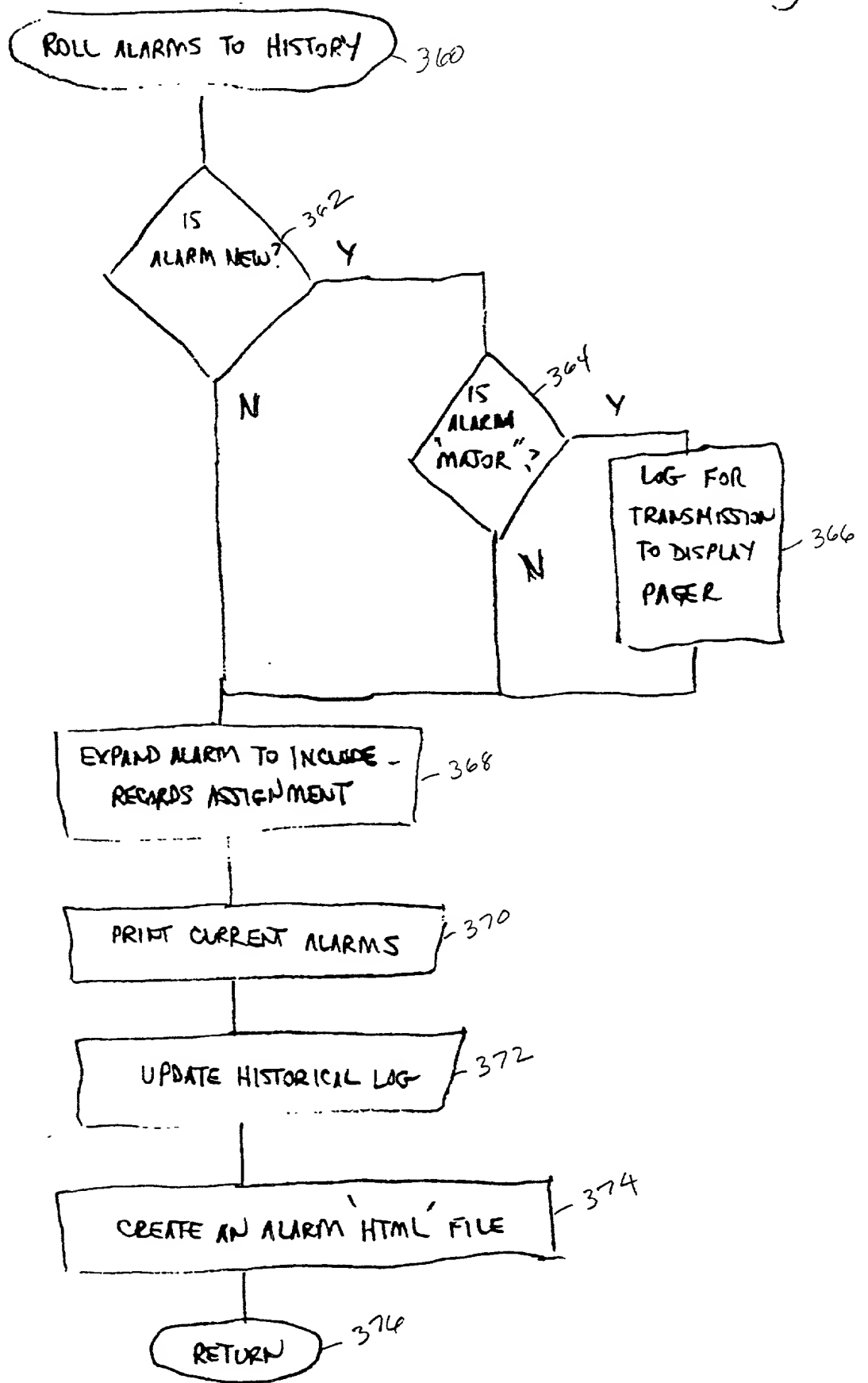


FIG 20

DECLARATION  
FOR UTILITY OR DESIGN  
PATENT APPLICATION

) Attorney Docket No.: A00554/11510-00013

)

) First Named Inventor:

) Hahn, et al.

)

) Application Number: N/A

X Declaration      ☐ Declaration )

Submitted      Submitted )

With      After )

Initial      Initial )

Filing      Filing )

) Filing Date:      Herewith

) Group Art Unit:      N/A

) Examiner Name:      N/A

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

WEB-BASED NETWORK MONITORING TOOL

(Title of Invention)

the specification of which:

(x) is attached hereto, or

( ) was filed by an authorized person on my behalf on \_\_\_\_\_  
(Date)

as United States Application Number \_\_\_\_\_

or PCT International Application Number \_\_\_\_\_,

and was amended on \_\_\_\_\_ (if applicable).

(Date)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT international application which designated at least one country other than the United States of

America, listed below, and I have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or any PCT international application, on this invention filed by me or my legal representatives or assigns and having a filing date before that of the application on which priority is claimed:

Prior Foreign Application Number(s)	Country	Foreign Filing Date	Priority Not Claimed	Certified Copy Attached	
				Yes	No
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet attached hereto.

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below:

Provisional Application Number(s)	Provisional Application Filing Date

☐ Additional provisional application numbers are listed on a supplemental priority data sheet attached hereto.

I hereby claim the benefit under Title 35, United States Code, §120, of any prior United States application(s), or under §365(c) of any PCT international application(s) designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose all information known by me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56, which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

		Filing Date of	
	Prior PCT	U.S. or PCT	
Prior U.S.	International	International	Patent Number
<u>Application Number</u>	<u>Application Number</u>	<u>Application</u>	<u>(if applicable)</u>

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet attached hereto.

I hereby appoint the following attorneys, with full power of substitution and revocation, to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith and request that all correspondence all telephone calls in respect to this application be directed to KATTEN MUCHIN ZAVIS at 525 West Monroe Street Street, Chicago, Illinois 60661-3693, Telephone No. (312) 902-5200.

<u>Attorney Name</u>	<u>Registration Number</u>
Timothy J. Vezeau	26,348
John S. Paniaguas	31,051
Scott Dunbar	37,124
Martin T. LeFevour	37,378
Jane J. Choi	39,980

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made herein on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity or enforceability of the application or any patent issued thereon.

Full name of sole or one joint inventor:

Douglas A. Hahn  
(Given names first, with Family name last)

Inventor's signature:

\_\_\_\_\_

Date:

\_\_\_\_\_

Residence:

Chicago, IL  
(City and State for U.S. Residents;  
City and Country for others)



Full name of sole or one  
joint inventor: Bruce L. Leatherman  
(Given names first, with Family name last)

Date: \_\_\_\_\_

Residence: Lemont, IL  
(City and State for U.S. Residents;  
City and Country for others)

Post Office Address: 7 Mayfair Court  
Lemont, IL 60439

Citizenship: U.S.A.

☐ Additional foreign application numbers:

[illegible]

mic1.cfg

TROY:99 G:99 G  
11:ACI TROY  
13:ACI TROY  
15:ACI TROY  
17:ACI TROY  
18:ACI TROY  
19:ACI TROY  
HUDSON:90 Y:95 R  
12:ACI HUDSON  
14:ACI HUDSON  
16:ACI HUDSON  
20:ACI HUDSON  
21:ACI HUDSON  
22:ACI HUDSON  
DID [REDACTED] 90 Y:99 R  
30:DID  
IMT CHICAGO 1:90 Y:99 R  
3:IMT CHICAGO 1  
IMT CHICAGO 2:90 Y:99 R  
5:IMT CHICAGO 2  
IMT CHICAGO 3:90 Y:99 R  
2:IMT CHICAGO 3  
IMT CLEVELAND:90 Y:99 R  
6:IMT CLEVELAND  
IMT DETROIT 2:90 Y:99 R  
8:IMT DETROIT 2  
9:IMT DETROIT 2  
118:IMT DETROIT 2  
OUT DETROIT:90 G:99 G  
32:OUTBOUND DETROIT  
OUT SOUTHFIELD:90 Y:99 R  
33:OUTBOUND SOUTHFIELD  
34:OUTBOUND SOUTHFIELD  
MICH IVR:90 Y:99 R  
599:IVR PORTS  
CQC  
CQC:CONTACT QUALITY  
EPN's  
EPN:BETHUNE (IT)  
EPN:KALAMAZOO  
EPN:LANSING  
EPN:SAGINAW  
EPN:SOUTHFIELD

mic1.eqp

MIC1 05/25/99

01A	DISK DRIVE	TN1657
01A	DUPLICATION INTRFC	UN330B
01A	MEMORY 1	TN1650B
01A	MEMORY 2	TN1650B
01A	MEMORY 3	TN1650B
01A	MSS/NETWORK CONT	UN332
01A	PACKET INTERFACE 1	TN1655
01A	PROCESSOR	UN331B
01A	SYS ACCESS-MAINT	TN1648
01A	TAPE DRIVE	TN1656
01A	TONE/CLOCK	TN2182B

01B	DISK DRIVE	TN1657
01B	DUPLICATION INTRFC	UN330B
01B	MEMORY 1	TN1650B
01B	MEMORY 2	TN1650B
01B	MEMORY 3	TN1650B
01B	MSS/NETWORK CONT	UN332
01B	PACKET INTERFACE 1	TN1655
01B	PROCESSOR	UN331B
01B	SYS ACCESS-MAINT	TN1648
01B	TAPE DRIVE	TN1656
01B	TONE/CLOCK	TN2182

01C01	PGATE BOARD	TN577
01C02	EXPANSION INTRFC	TN570B
01C03	DATA LINE	TN726B
01C04	PDATA LINE	TN553
01C05	AUXILIARY TRUNK	TN763D
01C06	MAINTENANCE/TEST	TN771D
01C07	DS1 INTERFACE	TN767E HG 599 - IVR x58000
01C08	DS1 INTERFACE	TN767E HG 599 - IVR x58024
01C09	DS1 INTERFACE	TN767E HG 599 - IVR x58048
01C11	DS1 CONVERTER	TN1654 EPN 25 - KALAMAZOO
01C12	DS1 CONVERTER	TN1654 EPN 14 - BETHUNE
01C13	DS1 INTERFACE	TN767E HG 599 - IVR x58072
01C14	DS1 INTERFACE	TN767E HG 599 - IVR x58288
01C15	DS1 INTERFACE	TN767E HG 599 - IVR x58312
01C16	DS1 INTERFACE	TN464F TGN 3 - IMT CHICAGO 1
01C17	DS1 INTERFACE	TN464F TGN 3 - IMT CHICAGO 1
01C18	DS1 INTERFACE	TN464F TGN 3 - IMT CHICAGO 1
01C19	DS1 INTERFACE	TN464F CQC - SOUTHFIELD
01C20	DS1 INTERFACE	TN464F CQC - KALAMAZOO

01D01	DIGITAL LINE	TN754C
01D02	EXPANSION INTRFC	TN570B

micl.eqp

01D04	ANALOG LINE	TN746B	
01D08	DS1 INTERFACE	TN767E	HG 599 - IVR x58336
01D09	DS1 INTERFACE	TN767E	TGN 11 - TROY TGN 623
01D10	DS1 CONVERTER	TN1654	EPN 17 - SOUTHFIELD
01D11	DS1 CONVERTER	TN1654	EPN 18 - SOUTHFIELD
01D12	DS1 INTERFACE	TN767E	TGN 3 - IMT CHICAGO 1
01D13	DS1 INTERFACE	TN767E	TGN 32 - OUTBOUND DETROIT
01D15	DS1 INTERFACE	TN767E	HG 599 - IVR x58360
01D16	DS1 INTERFACE	TN767E	HG 599 - IVR x58096
01D17	DS1 INTERFACE	TN464F	TGN 5 - IMT CHICAGO 2
01D18	DS1 INTERFACE	TN464F	TGN 5 - IMT CHICAGO 2
01D19	DS1 INTERFACE	TN464F	CQC - LANSING
01D20	DS1 INTERFACE	TN464F	CQC - SAGINAW

01E01	DS1 CONVERTER	TN1654	EPN 26 - KALAMAZOO
01E02	SWITCH NODE INTF	TN573B	
01E03	SWITCH NODE INTF	TN573B	EPN 26 - KALAMAZOO
01E04	SWITCH NODE INTF	TN573B	
01E05	SWITCH NODE INTF	TN573B	
01E07	SWITCH NODE INTF	TN573B	EPN 17 - SOUTHFIELD
01E08	SWITCH NODE INTF	TN573B	
01E09	SWITCH NODE INTF	TN573B	
01E10	SWITCH NODE CLOCK	TN572	
01E12	SWITCH NODE CLOCK	TN572	
01E13	SWITCH NODE INTF	TN573B	
01E14	SWITCH NODE INTF	TN573B	
01E15	SWITCH NODE INTF	TN573B	EPN 25 - KALAMAZOO
01E16	SWITCH NODE INTF	TN573B	EPN 18 - SOUTHFIELD
01E17	SWITCH NODE INTF	TN573B	EPN 14 - BETHUNE
01E18	SWITCH NODE INTF	TN573B	
01E20	SWITCH NODE INTF	TN573B	

02A	MAINTENANCE	TN775B	
02A	TONE/CLOCK	TN2182B	
02A01	EXPANSION INTRFC	TN570B	
02A02	ANNOUNCEMENT	TN750C	
02A03	CALL CLASSIFIER	TN744C	
02A04	CALL CLASSIFIER	TN744C	
02A05	DIGITAL LINE	TN2224	
02A11	DS1 CONVERTER	TN1654	EPN 19 - SOUTHFIELD
02A12	DS1 INTERFACE	TN767E	HG 599 - IVR x58120
02A13	DS1 INTERFACE	TN767E	HG 599 - IVR x58144
02A14	DS1 INTERFACE	TN767E	
02A15	RESERVED LGATE	TN2208	
02A16	RESERVED LGATE	TN2208	
02A17	RESERVED LGATE	TN2208	
02A18	LAN GATE BOARD	TN2208	
02A19	RESERVED LGATE	TN2208	

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02B01	BRI LINE	TN556B	
02B03	ANNOUNCEMENT	TN750C	
02B10	DS1 CONVERTER	TN1654	EPN 20 - SOUTHFIELD
02B11	DS1 CONVERTER	TN1654	EPN 27 - KALAMAZOO
02B13	DS1 INTERFACE	TN767E	TGN 11 - TROY TGN 623
02B14	DS1 INTERFACE	TN767E	TGN 5 - IMT CHICAGO 2
02B15	DS1 INTERFACE	TN767E	TGN 32 - OUT DETROIT
02B16	DS1 INTERFACE	TN767E	TGN 32 - OUT DETROIT
02B17	DS1 INTERFACE	TN767E	TGN 32 - OUT DETROIT
02B18	DS1 INTERFACE	TN464F	TGN 6 - IMT CLEVELAND
02B19	DS1 INTERFACE	TN464F	TGN 6 - IMT CLEVELAND
02E01	DS1 CONVERTER	TN1654	EPN 28 - SAGINAW
02E02	SWITCH NODE INTF	TN573B	
02E03	SWITCH NODE INTF	TN573B	EPN 28 - SAGINAW
02E04	SWITCH NODE INTF	TN573B	
02E05	SWITCH NODE INTF	TN573B	
02E06	SWITCH NODE INTF	TN573B	EPN 20 - SOUTHFIELD
02E07	SWITCH NODE INTF	TN573B	EPN 27 - KALAMAZOO
02E08	SWITCH NODE INTF	TN573B	
02E09	SWITCH NODE INTF	TN573B	
02E10	SWITCH NODE CLOCK	TN572	
02E12	SWITCH NODE CLOCK	TN572	
02E13	SWITCH NODE INTF	TN573B	
02E14	SWITCH NODE INTF	TN573B	
02E16	SWITCH NODE INTF	TN573B	EPN 19 - SOUTHFIELD
02E17	SWITCH NODE INTF	TN573B	
02E18	SWITCH NODE INTF	TN573B	
02E19	SWITCH NODE INTF	TN573B	
02E20	SWITCH NODE INTF	TN573B	EPN 29 - SAGINAW
02E21	DS1 CONVERTER	TN1654	EPN 29 - SAGINAW
03A	MAINTENANCE	TN775B	
03A	TONE/CLOCK	TN2182B	
03A01	EXPANSION INTRFC	TN570B	
03A02	ANNOUNCEMENT	TN750C	
03A03	CALL CLASSIFIER	TN744C	
03A04	CALL CLASSIFIER	TN744C	
03A10	DS1 CONVERTER	TN1654	EPN 21 - SOUTHFIELD
03A11	DS1 CONVERTER	TN1654	EPN 22 - SOUTHFIELD
03A12	DS1 INTERFACE	TN767E	HG 599 - IVR x58168
03A13	DS1 INTERFACE	TN767E	HG 599 - IVR x58192
03A14	DS1 INTERFACE	TN767E	HG 599 - IVR x58216
03A15	DS1 INTERFACE	TN767E	HG 599 - IVR x58240
03A16	DS1 INTERFACE	TN767E	HG 599 - IVR x58264
03A17	DS1 INTERFACE	TN464F	TGN 15 - TROY TGN 627
03A18	DS1 INTERFACE	TN464F	TGN 118 - IMT DETROIT 2

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03A19	DS1 INTERFACE	TN464F	TGN 11 - TROY TGN 623
03E01	DS1 CONVERTER	TN1654	EPN 30 - SAGINAW
03E02	SWITCH NODE INTF	TN573B	
03E03	SWITCH NODE INTF	TN573B	EPN 30 - SAGINAW
03E04	SWITCH NODE INTF	TN573B	
03E05	SWITCH NODE INTF	TN573B	
03E06	SWITCH NODE INTF	TN573B	EPN 22 - SOUTHFIELD
03E07	SWITCH NODE INTF	TN573B	
03E08	SWITCH NODE INTF	TN573B	
03E10	SWITCH NODE CLOCK	TN572	
03E12	SWITCH NODE CLOCK	TN572	
03E14	SWITCH NODE INTF	TN573B	
03E15	SWITCH NODE INTF	TN573B	
03E16	SWITCH NODE INTF	TN573B	
03E17	SWITCH NODE INTF	TN573B	EPN 21 - SOUTHFIELD
03E18	SWITCH NODE INTF	TN573B	
03E19	SWITCH NODE INTF	TN573B	
03E20	SWITCH NODE INTF	TN573B	EPN 31 - SAGINAW
03E21	DS1 CONVERTER	TN1654	EPN 31 - SAGINAW
04A	MAINTENANCE	TN775B	
04A	TONE/CLOCK	TN2182B	
04A01	EXPANSION INTRFC	TN570B	
04A02	ANNOUNCEMENT	TN750C	
04A03	CALL CLASSIFIER	TN744C	
04A04	CALL CLASSIFIER	TN744C	
04A05	ANNOUNCEMENT	TN750	
04A11	DS1 INTERFACE	TN767E	TGN 11 - TROY TGN 623
04A12	DS1 INTERFACE	TN767E	TGN 15 - TROY TGN 627
04A13	DS1 INTERFACE	TN767E	TGN 32 - OUT DETROIT
04A14	DS1 INTERFACE	TN767E	TGN 32 - OUT DETROIT
04A15	DS1 INTERFACE	TN767E	TGN 20 - HUDSON TGN 716
04A16	DS1 INTERFACE	TN767E	TGN 5 - IMT CHICAGO 2
04A17	DS1 INTERFACE	TN464F	TGN 15 - TROY TGN 627
04A18	DS1 INTERFACE	TN464F	TGN 11 - TROY TGN 623
04A19	DS1 INTERFACE	TN464F	TGN 16 - HUDSON TGN 642
04E	TONE/CLOCK	TN2182B	
04E01	EXPANSION INTRFC	TN570B	
04E02	TONE/CLOCK	TN2182B	
04E08	DS1 INTERFACE	TN767E	TGN 5 - IMT CHICAGO 2
04E09	DS1 INTERFACE	TN767E	TGN 12 - HUDSON TGN 722
04E10	DS1 INTERFACE	TN767E	TGN 21 - HUDSON TGN 724
04E11	DS1 INTERFACE	TN767E	TGN 22 - HUDSON TGN 643
04E13	DS1 INTERFACE	TN767E	TGN 19 - TROY TGN 634
04E14	DS1 INTERFACE	TN767E	TGN 21 - HUDSON TGN 724
04E15	DS1 INTERFACE	TN767E	TGN 22 - HUDSON TGN 643

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04E16	DS1 INTERFACE	TN464F	TGN 34 - OUT SOUTHFIELD
04E17	DS1 INTERFACE	TN464F	TGN 17 - TROY TGN 629
04E18	DS1 INTERFACE	TN464F	TGN 18 - TROY TGN 624
04E19	DS1 INTERFACE	TN464F	TGN 19 - TROY TGN 634
04E20	DS1 INTERFACE	TN464F	TGN 20 - HUDSON TGN 716

05A	MAINTENANCE	TN775B	
05A	TONE/CLOCK	TN2182B	
05A01	EXPANSION INTRFC	TN570B	
05A02	CALL CLASSIFIER	TN744C	
05A03	CALL CLASSIFIER	TN744C	
05A04	PGATE BOARD	TN577	
05A11	DS1 INTERFACE	TN767E	TGN 16 - HUDSON TGN 642
05A12	DS1 INTERFACE	TN767E	TGN 15 - TROY TGN 627
05A13	DS1 INTERFACE	TN767E	TGN 20 - HUDSON TGN 716
05A14	DS1 INTERFACE	TN767E	TGN 6 - IMT CLEVELAND
05A15	DS1 INTERFACE	TN767E	TGN 6 - IMT CLEVELAND
05A16	DS1 INTERFACE	TN464F	TGN 16 - HUDSON TGN 642
05A17	DS1 INTERFACE	TN464F	TGN 33 - OUT SOUTHFIELD
05A18	DS1 INTERFACE	TN464F	TGN 21 - HUDSON TGN 724
05A19	DS1 INTERFACE	TN464F	TGN 22 - HUDSON TGN 643

05E	TONE/CLOCK	TN2182B	
05E01	EXPANSION INTRFC	TN570B	
05E02	TONE/CLOCK	TN2182B	
05E08	DS1 INTERFACE	TN767E	TGN 30 - DID
05E09	DS1 INTERFACE	TN767E	TGN 30 - DID
05E10	DS1 INTERFACE	TN767E	TGN 6 - IMT CLEVELAND
05E11	DS1 INTERFACE	TN767E	TGN 13 - TROY TGN 626
05E12	DS1 INTERFACE	TN767E	TGN 14 - HUDSON TGN 635
05E13	DS1 INTERFACE	TN767E	TGN 19 - TROY TGN 634
05E14	DS1 INTERFACE	TN767E	TGN 12 - HUDSON TGN 722
05E15	DS1 INTERFACE	TN464F	TGN 13 - TROY TGN 626
05E16	DS1 INTERFACE	TN464F	TGN 14 - HUDSON TGN 635
05E17	DS1 INTERFACE	TN464F	TGN 17 - TROY TGN 629
05E18	DS1 INTERFACE	TN464F	TGN 18 - TROY TGN 624
05E19	DS1 INTERFACE	TN464F	TGN 19 - TROY TGN 634
05E20	DS1 INTERFACE	TN464F	TGN 20 - HUDSON TGN 716

06A	MAINTENANCE	TN775B	
06A	TONE/CLOCK	TN2182B	
06A01	EXPANSION INTRFC	TN570B	
06A02	CALL CLASSIFIER	TN744C	
06A03	CALL CLASSIFIER	TN744C	
06A11	DS1 INTERFACE	TN767E	TGN 6 - IMT CLEVELAND
06A12	DS1 INTERFACE	TN767E	TGN 15 - TROY TGN 627
06A13	DS1 INTERFACE	TN767E	TGN 16 - HUDSON TGN 642
06A14	DS1 INTERFACE	TN767E	TGN 6 - IMT CLEVELAND

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06A15	DS1 INTERFACE	TN767E	TGN 12 - HUDSON TGN 722
06A16	DS1 INTERFACE	TN464F	TGN 12 - HUDSON TGN 722
06A17	DS1 INTERFACE	TN464F	TGN 17 - TROY TGN 629
06A18	DS1 INTERFACE	TN464F	TGN 21 - HUDSON TGN 724
06A19	DS1 INTERFACE	TN464F	TGN 22 - HUDSON TGN 643
06E	TONE/CLOCK	TN2182B	
06E01	EXPANSION INTRFC	TN570B	
06E02	TONE/CLOCK	TN2182B	
06E08	DS1 INTERFACE	TN767E	TGN 30 - DID
06E10	DS1 INTERFACE	TN767E	TGN 14 - HUDSON TGN 635
06E11	DS1 INTERFACE	TN767E	TGN 13 - TROY TGN 626
06E14	DS1 INTERFACE	TN767E	TGN 19 - TROY TGN 634
06E15	DS1 INTERFACE	TN464F	TGN 13 - TROY TGN 626
06E16	DS1 INTERFACE	TN464F	TGN 14 - HUDSON TGN 635
06E17	DS1 INTERFACE	TN464F	TGN 33 - OUT SOUTHFIELD
06E18	DS1 INTERFACE	TN464F	TGN 18 - TROY TGN 624
06E19	DS1 INTERFACE	TN464F	TGN 34 - OUT SOUTHFIELD
06E20	DS1 INTERFACE	TN464F	TGN 20 - HUDSON TGN 716
07A	MAINTENANCE	TN775B	
07A	TONE/CLOCK	TN2182B	
07A01	EXPANSION INTRFC	TN570B	
07A02	CALL CLASSIFIER	TN744C	
07A03	CALL CLASSIFIER	TN744C	
07A10	DS1 INTERFACE	TN767E	TGN 6 - IMT CLEVELAND
07A11	DS1 INTERFACE	TN767E	TGN 32 - OUT DETROIT
07A12	DS1 INTERFACE	TN767E	TGN 14 - HUDSON TGN 635
07A13	DS1 INTERFACE	TN767E	TGN 6 - IMT CLEVELAND
07A15	DS1 INTERFACE	TN767E	TGN 16 - HUDSON TGN 642
07A16	DS1 INTERFACE	TN464F	TGN 12 - HUDSON TGN 722
07A17	DS1 INTERFACE	TN464F	TGN 17 - TROY TGN 629
07A18	DS1 INTERFACE	TN464F	TGN 18 - TROY TGN 624
07A19	DS1 INTERFACE	TN464F	TGN 33 - OUT SOUTHFIELD
07E	TONE/CLOCK	TN2182B	
07E01	EXPANSION INTRFC	TN570B	
07E02	TONE/CLOCK	TN2182B	
07E08	DS1 INTERFACE	TN767E	TGN 30 - DID
07E09	DS1 INTERFACE	TN767E	TGN 6 - IMT CLEVELAND
07E10	DS1 INTERFACE	TN767E	TGN 13 - TROY TGN 626
07E11	DS1 INTERFACE	TN767E	TGN 21 - HUDSON TGN 724
07E13	DS1 INTERFACE	TN767E	
07E14	DS1 INTERFACE	TN767E	TGN 22 - HUDSON TGN 643
07E16	DS1 INTERFACE	TN464F	TGN 34 - OUT SOUTHFIELD
07E17	DS1 INTERFACE	TN464F	TGN 17 - TROY TGN 629
07E18	DS1 INTERFACE	TN464F	TGN 18 - TROY TGN 624



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08A	MAINTENANCE	TN775B	@EPN 14 - BETHUNE
08A	TONE CLOCK	TN2182	@EPN 14 - BETHUNE
08A01	EXPANSION INTRFC	TN570B	@EPN 14 - BETHUNE
08A02	DS1 CONVERTER	TN1654	@EPN 14 - BETHUNE
08A03	DIGITAL LINE	TN2224	@EPN 14 - BETHUNE
08A04	DIGITAL LINE	TN2224	@EPN 14 - BETHUNE
08A05	DIGITAL LINE	TN2224	@EPN 14 - BETHUNE
08A06	DIGITAL LINE	TN2224	@EPN 14 - BETHUNE -
13A	MAINTENANCE	TN775B	@EPN 17 - SOUTHFIELD
13A	TONE CLOCK	TN2182	@EPN 17 - SOUTHFIELD
13A01	EXPANSION INTRFC	TN570B	@EPN 17 - SOUTHFIELD
13A02	DS1 CONVERTER	TN1654	@EPN 17 - SOUTHFIELD
13A03	DIGITAL LINE	TN2224	@EPN 17 - SOUTHFIELD
13A04	DIGITAL LINE	TN2224	@EPN 17 - SOUTHFIELD
13A05	DIGITAL LINE	TN2224	@EPN 17 - SOUTHFIELD
13A06	DIGITAL LINE	TN2224	@EPN 17 - SOUTHFIELD
13A07	DIGITAL LINE	TN2224	@EPN 17 - SOUTHFIELD
14A	MAINTENANCE	TN775B	@EPN 18 - SOUTHFIELD
14A	TONE CLOCK	TN2182	@EPN 18 - SOUTHFIELD
14A01	EXPANSION INTRFC	TN570B	@EPN 18 - SOUTHFIELD
14A02	DS1 CONVERTER	TN1654	@EPN 18 - SOUTHFIELD
14A03	DIGITAL LINE	TN2224	@EPN 18 - SOUTHFIELD
14A04	DIGITAL LINE	TN2224	@EPN 18 - SOUTHFIELD
14A05	DIGITAL LINE	TN2224	@EPN 18 - SOUTHFIELD
14A06	DIGITAL LINE	TN2224	@EPN 18 - SOUTHFIELD
15A	MAINTENANCE	TN775B	@EPN 19 - SOUTHFIELD
15A	TONE CLOCK	TN2182	@EPN 19 - SOUTHFIELD
15A01	EXPANSION INTRFC	TN570B	@EPN 19 - SOUTHFIELD
15A02	DS1 CONVERTER	TN1654	@EPN 19 - SOUTHFIELD
15A03	DIGITAL LINE	TN2224	@EPN 19 - SOUTHFIELD
15A04	DIGITAL LINE	TN2224	@EPN 19 - SOUTHFIELD
15A05	DIGITAL LINE	TN2224	@EPN 19 - SOUTHFIELD
15A06	DIGITAL LINE	TN2224	@EPN 19 - SOUTHFIELD
16A	MAINTENANCE	TN775B	@EPN 20 - SOUTHFIELD
16A	TONE CLOCK	TN2182	@EPN 20 - SOUTHFIELD
16A01	EXPANSION INTRFC	TN570B	@EPN 20 - SOUTHFIELD
16A02	DS1 CONVERTER	TN1654	@EPN 20 - SOUTHFIELD
16A03	DIGITAL LINE	TN2224	@EPN 20 - SOUTHFIELD
16A04	DIGITAL LINE	TN2224	@EPN 20 - SOUTHFIELD
16A05	DIGITAL LINE	TN2224	@EPN 20 - SOUTHFIELD
16A06	DIGITAL LINE	TN2224	@EPN 20 - SOUTHFIELD
17A	MAINTENANCE	TN775B	@EPN 21 - SOUTHFIELD
17A	TONE CLOCK	TN2182	@EPN 21 - SOUTHFIELD

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17A01	EXPANSION INTRFC	TN570B	@EPN 21 - SOUTHFIELD
17A02	DS1 CONVERTER	TN1654	@EPN 21 - SOUTHFIELD
17A03	DIGITAL LINE	TN2224	@EPN 21 - SOUTHFIELD
17A04	DIGITAL LINE	TN2224	@EPN 21 - SOUTHFIELD
17A05	DIGITAL LINE	TN2224	@EPN 21 - SOUTHFIELD
17A06	DIGITAL LINE	TN2224	@EPN 21 - SOUTHFIELD
17A07	DIGITAL LINE	TN2224	@EPN 21 - SOUTHFIELD
18A	MAINTENANCE	TN775B	@EPN 22 - SOUTHFIELD
18A	TONE CLOCK	TN2182	@EPN 22 - SOUTHFIELD
18A01	EXPANSION INTRFC	TN570B	@EPN 22 - SOUTHFIELD
18A02	DS1 CONVERTER	TN1654	@EPN 22 - SOUTHFIELD
18A03	DIGITAL LINE	TN2224	@EPN 22 - SOUTHFIELD
18A04	DIGITAL LINE	TN2224	@EPN 22 - SOUTHFIELD
18A05	DIGITAL LINE	TN2224	@EPN 22 - SOUTHFIELD
18A06	DIGITAL LINE	TN2224	@EPN 22 - SOUTHFIELD
19A	MAINTENANCE	TN775B	
19A	TONE/CLOCK	TN2182B	
19A01	EXPANSION INTRFC	TN570B	
19A04	DS1 INTERFACE	TN767E	TGN 34 - OUT SOUTHFIELD
19A05	DS1 INTERFACE	TN767E	TGN 34 - OUT SOUTHFIELD
19A06	DS1 INTERFACE	TN767E	TGN 33 - OUT SOUTHFIELD
19A16	DS1 INTERFACE	TN464F	TGN 118 - IMT DETROIT 2
19A17	DS1 INTERFACE	TN767E	TGN 9 - IMT DETROIT 2
19A18	DS1 INTERFACE	TN767E	TGN 2 - IMT CHICAGO 3
19A19	DS1 INTERFACE	TN767E	TGN 118 - IMT DETROIT 2
19E	TONE/CLOCK	TN2182	
19E01	EXPANSION INTRFC	TN570B	
19E02	TONE/CLOCK	TN2182	
19E03	DS1 INTERFACE	TN767E	TGN 32 - OUT DETROIT
19E04	DS1 INTERFACE	TN767E	TGN 32 - OUT DETROIT
19E16	DS1 INTERFACE	TN464F	TGN 118 - IMT DETROIT 2
19E17	DS1 INTERFACE	TN464F	TGN 9 - IMT DETROIT 2
19E18	DS1 INTERFACE	TN464F	TGN 8 - IMT DETROIT 2
19E19	DS1 INTERFACE	TN464F	TGN 118 - IMT DETROIT 2
19E20	DS1 INTERFACE	TN767E	TGN 118 - IMT DETROIT 2
20A	MAINTENANCE	TN775B	@EPN 25 - KALAMAZOO
20A	TONE/CLOCK	TN2182	@EPN 25 - KALAMAZOO
20A01	EXPANSION INTRFC	TN570B	@EPN 25 - KALAMAZOO
20A02	DS1 CONVERTER	TN1654	@EPN 25 - KALAMAZOO
20A03	DIGITAL LINE	TN2224	@EPN 25 - KALAMAZOO
20A04	DIGITAL LINE	TN2224	@EPN 25 - KALAMAZOO
20A05	DIGITAL LINE	TN2224	@EPN 25 - KALAMAZOO
20A06	DIGITAL LINE	TN2224	@EPN 25 - KALAMAZOO

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21A	MAINTENANCE	TN775B	@EPN 26 -	KALAMAZOO
21A	TONE/CLOCK	TN2182	@EPN 26 -	KALAMAZOO
21A01	EXPANSION INTRFC	TN570B	@EPN 26 -	KALAMAZOO
21A02	DS1 CONVERTER	TN1654	@EPN 26 -	KALAMAZOO
21A03	DIGITAL LINE	TN2224	@EPN 26 -	KALAMAZOO
21A04	DIGITAL LINE	TN2224	@EPN 26 -	KALAMAZOO
21A05	DIGITAL LINE	TN2224	@EPN 26 -	KALAMAZOO
21A06	DIGITAL LINE	TN2224	@EPN 26 -	KALAMAZOO

22A	MAINTENANCE	TN775B	@EPN 27 -	KALAMAZOO
22A	TONE/CLOCK	TN2182	@EPN 27 -	KALAMAZOO
22A01	EXPANSION INTRFC	TN570B	@EPN 27 -	KALAMAZOO
22A02	DS1 CONVERTER	TN1654	@EPN 27 -	KALAMAZOO
22A03	DIGITAL LINE	TN2224	@EPN 27 -	KALAMAZOO
22A04	DIGITAL LINE	TN2224	@EPN 27 -	KALAMAZOO
22A05	DIGITAL LINE	TN2224	@EPN 27 -	KALAMAZOO
22A06	DIGITAL LINE	TN2224	@EPN 27 -	KALAMAZOO

23A	MAINTENANCE	TN775B	@EPN 28 -	SAGINAW
23A	TONE/CLOCK	TN2182	@EPN 28 -	SAGINAW
23A01	EXPANSION INTRFC	TN570B	@EPN 28 -	SAGINAW
23A02	DS1 CONVERTER	TN1654	@EPN 28 -	SAGINAW
23A03	DIGITAL LINE	TN2224	@EPN 28 -	SAGINAW
23A04	DIGITAL LINE	TN2224	@EPN 28 -	SAGINAW
23A05	DIGITAL LINE	TN2224	@EPN 28 -	SAGINAW
23A06	DIGITAL LINE	TN2224	@EPN 28 -	SAGINAW

24A	MAINTENANCE	TN775B	@EPN 29 -	SAGINAW
24A	TONE/CLOCK	TN2182	@EPN 29 -	SAGINAW
24A01	EXPANSION INTRFC	TN570B	@EPN 29 -	SAGINAW
24A02	DS1 CONVERTER	TN1654	@EPN 29 -	SAGINAW
24A03	DIGITAL LINE	TN2224	@EPN 29 -	SAGINAW
24A04	DIGITAL LINE	TN2224	@EPN 29 -	SAGINAW
24A05	DIGITAL LINE	TN2224	@EPN 29 -	SAGINAW
24A06	DIGITAL LINE	TN2224	@EPN 29 -	SAGINAW

25A	MAINTENANCE	TN775B	@EPN 30 -	SAGINAW
25A	TONE/CLOCK	TN2182	@EPN 30 -	SAGINAW
25A01	EXPANSION INTRFC	TN570B	@EPN 30 -	SAGINAW
25A02	DS1 CONVERTER	TN1654	@EPN 30 -	SAGINAW
25A03	DIGITAL LINE	TN2224	@EPN 30 -	SAGINAW
25A04	DIGITAL LINE	TN2224	@EPN 30 -	SAGINAW
25A05	DIGITAL LINE	TN2224	@EPN 30 -	SAGINAW
25A06	DIGITAL LINE	TN2224	@EPN 30 -	SAGINAW

26A	MAINTENANCE	TN775B	@EPN 31 -	SAGINAW
26A	TONE/CLOCK	TN2182	@EPN 31 -	SAGINAW
26A01	EXPANSION INTRFC	TN570B	@EPN 31 -	SAGINAW

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26A02	DS1 CONVERTER	TN1654	@EPN	31	-	SAGINAW
26A03	DIGITAL LINE	TN2224	@EPN	31	-	SAGINAW
26A04	DIGITAL LINE	TN2224	@EPN	31	-	SAGINAW
26A05	DIGITAL LINE	TN2224	@EPN	31	-	SAGINAW
27A	MAINTENANCE	TN775C				
27A	TONE/CLOCK	TN2182				
27A01	EXPANSION INTRFC	TN570C				
27A04	MAINTENANCE/TEST	TN771D				
27A05	DS1 INTERFACE	TN464F	TGN	3	-	IMT CHICAGO 1
27A06	DS1 INTERFACE	TN464F	TGN	3	-	IMT CHICAGO 1
27A07	DS1 INTERFACE	TN464F	TGN	3	-	IMT CHICAGO 1
27A08	DS1 INTERFACE	TN464F	TGN	5	-	IMT CHICAGO 2
27A09	DS1 INTERFACE	TN464F	TGN	5	-	IMT CHICAGO 2
27A11	DS1 INTERFACE	TN767E	TGN	3	-	IMT CHICAGO 1
27A12	DS1 INTERFACE	TN767E	TGN	3	-	IMT CHICAGO 1
27A13	DS1 INTERFACE	TN767E	TGN	5	-	IMT CHICAGO 2
27A14	DS1 INTERFACE	TN767E	TGN	5	-	IMT CHICAGO 2
27A15	DS1 INTERFACE	TN767E	TGN	5	-	IMT CHICAGO 2
28A	MAINTENANCE	TN775C				
28A	TONE/CLOCK	TN2182				
28A01	EXPANSION INTRFC	TN570B				
28A12	DS1 INTERFACE	TN767E	TGN	9	-	IMT DETROIT 2
28A13	DS1 INTERFACE	TN767E	TGN	9	-	IMT DETROIT 2
28A14	DS1 INTERFACE	TN767E	TGN	8	-	IMT DETROIT 2
28A15	DS1 INTERFACE	TN767E	TGN	8	-	IMT DETROIT 2
28A16	DS1 INTERFACE	TN767E	TGN	2	-	IMT CHICAGO 3
28A17	DS1 INTERFACE	TN464F	TGN	9	-	IMT DETROIT 2
28A18	DS1 INTERFACE	TN464F	TGN	8	-	IMT DETROIT 2
28A19	DS1 INTERFACE	TN464F	TGN	2	-	IMT CHICAGO 3
29A	MAINTENANCE	TN775C				
29A	TONE/CLOCK	TN2182				
29A01	EXPANSION INTRFC	TN570B				
29A12	DS1 INTERFACE	TN767E	TGN	9	-	IMT DETROIT 2
29A13	DS1 INTERFACE	TN767E	TGN	9	-	IMT DETROIT 2
29A14	DS1 INTERFACE	TN767E	TGN	8	-	IMT DETROIT 2
29A15	DS1 INTERFACE	TN767E	TGN	8	-	IMT DETROIT 2
29A16	DS1 INTERFACE	TN767E	TGN	2	-	IMT CHICAGO 3
29A17	DS1 INTERFACE	TN464F	TGN	9	-	IMT DETROIT 2
29A18	DS1 INTERFACE	TN464F	TGN	8	-	IMT DETROIT 2
29A19	DS1 INTERFACE	TN464F	TGN	2	-	IMT CHICAGO 3

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ACD:MIC1 ACD1

TG:2:IMT CHICAGO 3

028A19:DHZZ 773873:144.151.178.91:???  
029A19:DHZZ 773874:144.151.178.92:???  
028A16:DHZZ 773875:144.151.178.187:???  
029A16:DHZZ 773876:144.151.178.188:???  
019A18:DHZZ 773877:144.151.178.27:???

TG:3:IMT CHICAGO 1

001C16:DHDZ 696029:144.151.178.86:144.156.152.86  
001C17:DHDZ 696030:144.151.178.87:144.156.152.87  
001C18:DHDZ 696031:144.151.178.88:144.156.152.88  
001D12:DHDZ 696032:144.151.178.89:144.156.152.89  
027A05:DHZZ 697047:144.151.179.17:144.156.152.177  
027A06:DHZZ 697048:144.151.179.18:144.156.152.178  
027A07:DHZZ 697049:144.151.179.19:144.156.152.179  
027A11:DHZZ 697050:144.151.179.20:144.156.152.180  
027A12:DHZZ 697051:144.151.179.21:144.156.152.181

TG:5:IMT CHICAGO 2

001D17:DHDZ 744328:144.151.178.180:144.156.179.81  
001D18:DHDZ 744329:144.151.178.181:144.156.179.82  
002B14:DHDZ 744330:144.151.178.182:144.156.179.83  
004A16:DHDZ 744331:144.151.178.183:144.156.179.84  
004E08:DHDZ 744332:144.151.178.184:144.156.179.85  
027A13:DHZZ 697052:144.151.179.22:144.156.179.177  
027A14:DHZZ 697053:144.151.179.23:144.156.179.178  
027A15:DHZZ 697054:144.151.179.24:144.156.179.179  
027A08:DHZZ 697055:144.151.179.25:144.156.179.180  
027A09:DHZZ 697056:144.151.179.26:144.156.179.181

TG:6:IMT CLEVELAND

002B18:DHZZ 521055:144.151.178.81:144.151.178.81  
002B19:DHZZ 521056:144.151.178.82:144.151.178.82  
005A14:DHZZ 521057:144.151.178.83:144.151.178.83  
005A15:DHZZ 521058:144.151.178.84:144.151.178.84  
005E10:DHZZ 521060:144.151.178.85:144.151.178.85  
006A11:DHZZ 534240:144.156.178.179:144.152.44.211  
006A14:DHZZ 534241:144.156.178.178:144.152.44.210  
007A10:DHZZ 534242:144.156.178.177:144.152.44.209  
007A13:DHZZ 534243:144.156.178.185:144.152.44.225  
007E09:DHZZ 534245:144.156.178.186:144.152.44.226

TG:8:IMT DETROIT 2

028A18:Direct Cable:N/A:N/A  
029A18:Direct Cable:N/A:N/A  
028A15:Direct Cable:N/A:N/A

micl.trk

028A14:Direct Cable:N/A:N/A  
029A15:Direct Cable:N/A:N/A  
029A14:Direct Cable:N/A:N/A  
019E18:Direct Cable:N/A:N/A

TG:9:IMT DETROIT 2

028A17:Direct Cable:N/A:N/A  
029A17:Direct Cable:N/A:N/A  
028A13:Direct Cable:N/A:N/A  
028A12:Direct Cable:N/A:N/A  
029A13:Direct Cable:N/A:N/A  
029A12:Direct Cable:N/A:N/A  
019A17:Direct Cable:N/A:N/A  
019E17:Direct Cable:N/A:N/A

TG:11:TROY TGN 623

003A19:HCGS 324230:N/A:N/A:TROY TGN 623  
004A18:HCGS 324330:N/A:N/A  
002B13:HCGS 324331:N/A:N/A  
004A11:HCGS 324332:N/A:N/A  
001D09:HCGS 324333:N/A:N/A

TG:12:HUDSON TGN 722

006A16:HCGS 324334:N/A:N/A:HUDSON TGN 722  
007A16:HCGS 324335:N/A:N/A  
004E09:HCGS 324336:N/A:N/A  
005E14:HCGS 324337:N/A:N/A  
006A15:HCGS 324338:N/A:N/A

TG:13:TROY TGN 626

005E15:HCGS 324339:N/A:N/A:TROY TGN 626  
006E15:HCGS 324340:N/A:N/A  
005E11:HCGS 324341:N/A:N/A  
006E11:HCGS 324342:N/A:N/A  
007E10:HCGS 324343:N/A:N/A

TG:14:HUDSON TGN 635

005E16:HCGS 324344:N/A:N/A:HUDSON TGN 635  
006E16:HCGS 324345:N/A:N/A  
005E12:HCGS 324346:N/A:N/A  
006E10:HCGS 324347:N/A:N/A  
007A12:HCGS 324348:N/A:N/A

TG:15:TROY TGN 627

003A17:HCGS 324349:N/A:N/A:TROY TGN 627  
004A17:HCGS 324350:N/A:N/A  
004A12:HCGS 324351:N/A:N/A  
005A12:HCGS 324352:N/A:N/A

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006A12:HCGS 324353:N/A:N/A

TG:16:HUDSON TGN 642

004A19:HCGS 324354:N/A:N/A:HUDSON TGN 642

005A16:HCGS 324355:N/A:N/A

005A11:HCGS 324356:N/A:N/A

006A13:HCGS 324357:N/A:N/A

007A15:HCGS 324358:N/A:N/A

TG:17:TROY TGN 629

004E17:HCGS 324483:N/A:N/A:TROY TGN 629

005E17:HCGS 324484:N/A:N/A

006A17:HCGS 324485:N/A:N/A

007A17:HCGS 324486:N/A:N/A

007E17:HCGS 324487:N/A:N/A

TG:18:TROY TGN 624

004E18:HCGS 324488:N/A:N/A:TROY TGN 624

005E18:HCGS 324489:N/A:N/A

006E18:HCGS 324490:N/A:N/A

007A18:HCGS 324491:N/A:N/A

007E18:HCGS 324492:N/A:N/A

TG:19:TROY TGN 634

004E19:HCGS 324493:N/A:N/A:TROY TGN 634

005E19:HCGS 324494:N/A:N/A

004E13:HCGS 324495:N/A:N/A

005E13:HCGS 324496:N/A:N/A

006E14:HCGS 324497:N/A:N/A

TG:20:HUDSON TGN 716

004E20:HCGS 324498:N/A:N/A:HUDSON TGN 716

005E20:HCGS 324499:N/A:N/A

006E20:HCGS 324500:N/A:N/A

004A15:HCGS 324501:N/A:N/A

005A13:HCGS 324502:N/A:N/A

TG:21:HUDSON TGN 724

005A18:HCGS 324504:N/A:N/A:HUDSON TGN 724

006A18:HCGS 324505:N/A:N/A

004E10:HCGS 324506:N/A:N/A

004E14:HCGS 324507:N/A:N/A

007E11:HCGS 324508:N/A:N/A

TG:22:HUDSON TGN 643

005A19:HCGS 324509:N/A:N/A:HUDSON TGN 643

006A19:HCGS 324510:N/A:N/A

004E11:HCGS 324511:N/A:N/A

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004E15:HCGS 324512:N/A:N/A  
007E14:HCGS 324513:N/A:N/A

TG:30:DID

005E08:CAC CFG2SG9:N/A:N/A:DTRTMIBL6CD-DTRTMIBHDC1\_AM101  
005E09:CAC CFG2SH2:N/A:N/A:DTRTMIBL6CD-DTRTMIBHDC1\_AM102  
006E08:CAC CFG2SH3:N/A:N/A:DTRTMIBL6CD-DTRTMIBHDC1\_AM103  
007E08:CAC CFG2SH4:N/A:N/A:DTRTMIBL6CD-DTRTMIBHDC1\_AM104

TG:32:OUT DETROIT

007A11:CAC CFG2KP8:N/A:N/A:DTRTMIBL6CD-DTRTMIBLDC2\_AM101  
001D13:CAC CFG2KP9:N/A:N/A:DTRTMIBL6CD-DTRTMIBLDC2\_AM102  
002B15:CAC CFG2KQ2:N/A:N/A:DTRTMIBL6CD-DTRTMIBLDC2\_AM103  
002B16:CAC CFG2KQ3:N/A:N/A:DTRTMIBL6CD-DTRTMIBLDC2\_AM104  
002B17:CAC CFG2KQ4:N/A:N/A:DTRTMIBL6CD-DTRTMIBLDC2\_AM105  
004A13:CAC CFG2KQ5:N/A:N/A:DTRTMIBL6CD-DTRTMIBLDC2\_AM106  
004A14:CAC CFG2KQ6:N/A:N/A:DTRTMIBL6CD-DTRTMIBLDC2\_AM107  
019E03:CAC CFK2SF7:N/A:N/A:DTRTMIBL6CD-DTRTMIBLDC2\_AM8054  
019E04:CAC CFK2SF8:N/A:N/A:DTRTMIBL6CD-DTRTMIBLDC2\_AM8055

TG:33:OUT SOUTHFIELD

005A17:CAC CFG2KQ7:N/A:N/A:DTRTMIBL6CD-SFLDMIOKDC0\_AM101  
007A19:CAC CFG2KQ8:N/A:N/A:DTRTMIBL6CD-SFLDMIOKDC0\_AM102  
006E17:CAC CFG2KQ9:N/A:N/A:DTRTMIBL6CD-SFLDMIOKDC0\_AM103  
019A06:CAC CFH2MK8:N/A:N/A:DTRTMIBL6CD-SFLDMIOKDC0\_AM107

TG:34:OUT SOUTHFIELD

006E19:CAC CFG2KR2:N/A:N/A:DTRTMIBL6CD-SFLDMIOKDC0\_AM104  
007E16:CAC CFG2KR3:N/A:N/A:DTRTMIBL6CD-SFLDMIOKDC0\_AM105  
004E16:CAC CFG2KP7:N/A:N/A:DTRTMIBL6CD-SFLDMIOKDC0\_AM106  
019A04:CAC CFK2RQ2:N/A:N/A:DTRTMIBL6CD-SFLDMIOKDC0\_8001  
019A05:CAC CFK2RQ3:N/A:N/A:DTRTMIBL6CD-SFLDMIOKDC0\_8002

TG:118:IMT DETROIT 2

019A16:Direct Cable:N/A:N/A  
019E19:Direct Cable:N/A:N/A  
003A18:Direct Cable:N/A:N/A  
019A19:Direct Cable:N/A:N/A  
019E16:Direct Cable:N/A:N/A  
019E20:Direct Cable:N/A:N/A

TG:599:IVR PORTS

001D16:DHDZ 696350:144.151.178.161:144.155.251.87:DTCS0611-1A x58096  
002A12:DHDZ 696351:144.151.178.162:144.155.251.88:DTCS0611-1B x58120  
002A13:DHDZ 696352:144.151.178.163:144.155.251.89:DTCS0611-2A x58144  
003A12:DHDZ 696353:144.151.178.164:144.155.251.90:DTCS0611-2B x58168  
003A13:DHDZ 696354:144.151.178.165:144.155.251.91:DTCS0612-1A x58192  
003A14:DHDZ 696355:144.151.178.166:144.155.251.92:DTCS0612-1B x58216



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003A15:DHDZ 696356:144.151.178.167:144.155.251.97:DTCS0612-2A x58240  
003A16:DHDZ 696357:144.151.178.168:144.155.251.98:DTCS0612-2B x58264  
001C14:DHDZ 696358:144.151.178.69:144.155.251.99:DTCS0815-1A x58288  
001C15:DHDZ 696359:144.151.178.70:144.155.251.100:DTCS0815-1B x58312  
001D08:DHDZ 696360:144.151.178.71:144.155.251.101:DTCS0815-2A x58336  
001D15:DHDZ 696361:144.151.178.72:144.155.251.102:DTCS0815-2B x58360  
007E13:DHDZ 696462:144.151.178.73:144.155.251.28:DTCS0203-1A x58384

CQC:CONTACT QUALITY

001C19:DHDZ 743873:144.151.178.97:N/A:SOUTHFIELD  
001D20:DHDZ 743874:144.151.178.98:N/A:SAGINAW  
001C20:DHDZ 743875:144.151.178.99:N/A:KALAMAZOO

EPN:BETHUNE (IT)

001C12:DHDZ 791565:144.151.178.37:N/A:EPN 14 008A02A  
001C12:DHDZ 791566:144.151.178.38:N/A:008A02B  
001C12:DHDZ 791567:144.151.178.39:N/A:008A02C  
001C12:DHDZ 791568:144.151.178.40:N/A:008A02D

EPN:KALAMAZOO

001C11:DHDZ 708222:144.151.178.57:N/A:EPN 25 020A02A  
001C11:DHDZ 708223:144.151.178.58:N/A:020A02B  
001C11:DHDZ 708224:144.151.178.59:N/A:020A02C  
001C11:DHDZ 708225:144.151.178.60:N/A:020A02D  
001E01:DHDZ 708226:144.151.178.149:N/A:EPN 26 021A02A  
001E01:DHDZ 708227:144.151.178.150:N/A:021A02B  
001E01:DHDZ 708228:144.151.178.151:N/A:021A02C  
001E01:DHDZ 708229:144.151.178.152:N/A:021A02D  
002B11:DHDZ 708230:144.151.178.153:N/A:EPN 27 022A02A  
002B11:DHDZ 708231:144.151.178.154:N/A:022A02B  
002B11:DHDZ 708232:144.151.178.155:N/A:022A02C  
002B11:DHDZ 708233:144.151.178.156:N/A:022A02D

EPN:SAGINAW

002E01:DHDZ 708234:144.151.178.25:N/A:EPN 28 023A02A  
002E01:DHDZ 708235:144.151.178.26:N/A:023A02B  
002E01:DHDZ 708236:144.151.178.27:N/A:023A02C  
002E01:DHDZ 708237:144.151.178.28:N/A:023A02D  
002E21:DHDZ 708238:144.151.178.41:N/A:EPN 29 024A02A  
002E21:DHDZ 708239:144.151.178.42:N/A:024A02B  
002E21:DHDZ 708240:144.151.178.43:N/A:024A02C  
002E21:DHDZ 708241:144.151.178.44:N/A:024A02D  
003E01:DHDZ 708242:144.151.178.121:N/A:EPN 30 025A02A  
003E01:DHDZ 708243:144.151.178.122:N/A:025A02B  
003E01:DHDZ 708244:144.151.178.123:N/A:025A02C  
003E01:DHDZ 708245:144.151.178.124:N/A:025A02D  
003E21:DHDZ 708246:144.151.178.137:N/A:EPN 31 026A02A  
003E21:DHDZ 708247:144.151.178.138:N/A:026A02B

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003E21:DHDZ 708248:144.151.178.139:N/A:026A02C

003E21:DHDZ 708249:144.151.178.140:N/A:026A02D

EPN:SOUTHFIELD

001D10:DHDZ 708302:144.151.178.17:N/A:EPN 17 013A02A

001D10:DHDZ 708303:144.151.178.18:N/A:013A02B

001D10:DHDZ 708304:144.151.178.19:N/A:013A02C

001D10:DHDZ 708305:144.151.178.20:N/A:013A02D

001D11:DHDZ 708306:144.151.178.33:N/A:EPN 18 014A02A

001D11:DHDZ 708307:144.151.178.34:N/A:014A02B

001D11:DHDZ 708308:144.151.178.35:N/A:014A02C

001D11:DHDZ 708309:144.151.178.36:N/A:014A02D

002A11:DHDZ 708310:144.151.178.49:N/A:EPN 19 015A02A

002A11:DHDZ 708311:144.151.178.50:N/A:015A02B

002A11:DHDZ 708312:144.151.178.51:N/A:015A02C

002A11:DHDZ 708313:144.151.178.52:N/A:015A02D

002B10:DHDZ 708314:144.151.178.113:N/A:EPN 20 016A02A

002B10:DHDZ 708315:144.151.178.114:N/A:016A02B

002B10:DHDZ 708316:144.151.178.115:N/A:016A02C

002B10:DHDZ 708317:144.151.178.116:N/A:016A02D

003A10:DHDZ 708318:144.151.178.129:N/A:EPN 21 017A02A

003A10:DHDZ 708319:144.151.178.130:N/A:017A02B

003A10:DHDZ 708320:144.151.178.131:N/A:017A02C

003A10:DHDZ 708321:144.151.178.132:N/A:017A02D

003A11:DHDZ 708322:144.151.178.145:N/A:EPN 22 018A02A

003A11:DHDZ 708323:144.151.178.146:N/A:018A02B

003A11:DHDZ 708324:144.151.178.147:N/A:018A02C

003A11:DHDZ 708325:144.151.178.148:N/A:018A02D

micl.gat

1 TEMPORARY SKILL  
99 System Ports  
100 BETHUNE IT  
200 STHFLD UNIV 200  
201 MI UNVL SR  
202 MI IT ONLINE  
203 MI TIMED ACW 203  
204 MI CSST  
231 HOTC INBOUND  
232 HOTC OUTBOUND/OFFLINE  
233 HOTC ACE HELP DESK  
234 HOTC-CORP HOUSING/GMAC  
235 HOTC-INTRA/UNBUNDLING DESK  
236 RSC OFFLINE/LTNP-RESALE  
237 RSC WINBACK IT  
250 Kalamazoo Asst Coach  
251 Lansing Asst Coach  
252 Saginaw Asst Coach  
253 Southfield Asst Coach  
256 MI ASST COACH  
257 MI WI ASST COACH 257  
258 MI OH ASST COACH 258  
260 Kalamazoo ACE  
261 GREENWODD/MI ACE  
262 Saginaw ACE  
263 Southfield ACE  
264 TC FUNCTION 264  
270 MI OH MULTI STATE  
276 IN UNIV  
278 WI MULTI  
297 Manager  
298 HOTC EMERGENCY  
299 MI Emergency  
583 ████████ TEST SKILL  
584 ASCOT TEST SKILL  
585 CALL FLOW TEST SKILL  
586 TELCOM OPS TEST SKILL #1  
587 TELCOM OPS TEST SKILL #2  
588 NETWORK VRU PORTS AUTO BILL  
589 IVR TEST SKILL-ACI IP  
594 NETWORK VRU PORTS  
595 MI IT  
596 IVR TROUBLESHOOTING SKILL  
597 IVR TEST SKILL  
598 MI IVR PORTS AUTO BILLING  
599 MI IVR PORTS

micl.pn

01	01	27	08	55	16	09/07/1999	HOST	CABINET	1
02	02	25	15	61	33	07/06/1999	HOST	CABINET	2
03	03	14	08	49	28	08/24/1999	HOST	CABINET	3
04	04	21	12	68	37	09/07/1999	HOST	CABINET	4
05	04	19	12	80	38	08/23/1999	HOST	CABINET	4
06	05	05	03	48	24	09/07/1999	HOST	CABINET	5
07	05	23	14	81	41	07/19/1999	HOST	CABINET	5
08	06	09	06	51	39	08/23/1999	HOST	CABINET	6
09	06	17	11	62	31	08/23/1999	HOST	CABINET	6
10	07	08	05	52	27	09/07/1999	HOST	CABINET	7
11	07	11	07	42	21	07/19/1999	HOST	CABINET	7
23	19	00	00	08	11	09/21/1999	HOST	CABINET	19
24	19	07	04	35	20	08/30/1999	HOST	CABINET	19
32	27	06	04	35	22	10/11/1999	HOST	CABINET	27
12	28	19	11	48	25	08/30/1999	HOST	CABINET	28
13	29	22	13	46	42	10/20/1999	HOST	CABINET	29
14	08	00	00	04	12	10/13/1999	BETHUNE		
25	20	09	24	20	52	05/29/1999	KALAMAZOO		
26	21	09	24	18	48	06/14/1999	KALAMAZOO		
27	22	10	27	18	49	06/01/1999	KALAMAZOO		
28	23	09	25	28	75	06/01/1999	SAGINAW		
29	24	08	21	26	68	06/28/1999	SAGINAW		
30	25	10	26	21	57	06/28/1999	SAGINAW		
31	26	01	02	17	46	07/19/1999	SAGINAW		
17	13	05	14	16	42	06/01/1999	SOUTHFIELD		
18	14	04	11	14	38	06/07/1999	SOUTHFIELD		
19	15	06	17	13	36	06/01/1999	SOUTHFIELD		
20	16	09	24	17	45	05/24/1999	SOUTHFIELD		
21	17	10	27	18	49	09/07/1999	SOUTHFIELD		
22	18	05	14	16	45	08/30/1999	SOUTHFIELD		

LOOP1.WAS

;Script to dial, connect, query, and process Lucent ACD data  
;[REDACTED]  
;all rights reserved

proc main

integer ACD\_SWITCH = 3 ;set active switch here where 1= ill1  
;2= ill2  
;3= mic1  
;4= ohio

integer AGENT  
string FNAME1 = "ill1.onl"  
string FNAME2 = "ill2.onl"  
string FNAME3 = "mic1.onl"  
string FNAME4 = "ohio.onl"

string CAPFILE = "loop.cap"  
string CXRSTAT = "cxr\_stat"  
string HAYES  
string WHO  
string WHOPASS  
string AGENT1  
string AGENT2  
string AGENT3  
string PGATE\_PORT

DIAL\_AGAIN:

if ACD\_SWITCH == 1  
fopen 0 FNAME1 READ TEXT  
endif

if ACD\_SWITCH == 2  
fopen 0 FNAME2 READ TEXT  
endif

if ACD\_SWITCH == 3  
fopen 0 FNAME3 READ TEXT  
endif

if ACD\_SWITCH == 4  
fopen 0 FNAME4 READ TEXT  
endif

;  
;start ACD specific login and retrieval here  
;

fgets 0 HAYES  
fgets 0 WHO  
fgets 0 WHOPASS  
fgets 0 AGENT1

LOOP1.WAS

```
fgets 0 AGENT2
fgets 0 AGENT3
fgets 0 PGATE_PORT
```

```
fclose 0
```

```
;first, see if we're already/still connected
```

```
pause 3
```

```
transmit "[OP"
```

```
waitfor "Command: " 4
```

```
    if SUCCESS      ;skip login scheme and start collecting data
        ;fclose 1
        set capture file CAPFILE
        goto HERE_LOOP
    endif
```

```
transmit "AT&D2^M" ;else send atdt string
```

```
pause 5
```

```
rxflush
```

```
transmit "ATDT"
```

```
transmit HAYES
```

```
rxflush ;clear any accumulated garbage
```

```
transmit "^M"
```

```
waitfor "CONNECT" 10
```

```
    if FAILURE
```

```
        goto DIAL_AGAIN ;possibly BUSY or ERROR
```

```
    endif
```

```
waitfor "Login: " 10
```

```
    if FAILURE
```

```
        goto DIAL_AGAIN ;possible PGATE trouble
```

```
    endif
```

```
transmit WHO
```

```
transmit "^M"
```

```
waitfor "Password: "
```

```
transmit WHOPASS
```

```
transmit "^M"
```

```
waitfor "Terminal Type (513, 715, 4410, 4425, VT220): [513] "
```

```
transmit "4410^M"
```

```
waitfor "Command: "
```

```
set capture file CAPFILE
```

```
HERE_LOOP:
```

# LOOP1.WAS

```
while $CARRIER      ;sets up start of continuous loop if CARRIER is ON
```

```
fopen 1 CAPFILE create
fopen 2 CXRSTAT create text
```

```
capture ON
```

```
;report on CARRIER DETECT STATUS
```

```
if $CARRIER
    fputs 2 " "
    fputs 2 "CARRIER OK"
    fputs 2 " "
```

```
else
    fputs 2 " "
    fputs 2 "CARRIER FAIL"
    fputs 2 " "
```

```
endif
```

```
fclose 2
```

```
pause 2
```

```
transmit "^[OP"      ;get back to command prompt
```

```
pause 2
```

```
if $CARRIER == 0
    goto CXR_ALARM
```

```
endif
```

```
;
```

```
-----
transmit "monitor traffic trunk-group^M"
```

```
                                ;display and retrieve trunk group status here
```

```
pause 4                        ;
snapshot capture               ;
```

```
transmit "^[OP"      ;get back to command prompt
pause 2
```

```
if $CARRIER == 0
    goto CXR_ALARM
```

```
endif
```

```
;
```

```
-----
transmit "display alarms^M"
```

```
pause 2
```

```
transmit "y^I"          ;choose active
pause 1
```

```
transmit "n^I"          ;skip resolved
```

LOOP1.WAS

```

pause 1

transmit "y^I"      ;choose major
pause 1

transmit "y^I"      ;choose minor
pause 1

transmit "n^I"      ;skip warning
pause 1

transmit "a^[OR"    ;choose 'all' status (or 'd' for day)

MORE_ALARMS:

if $CARRIER == 0
    goto CXR_ALARM
endif

waitfor "Command: " 7      ;wait 7 seconds

if FAILURE
    snapshot capture
    transmit "^[OV" ;enter 'F7' (next page)
    goto MORE_ALARMS
endif

pause 2
snapshot capture

transmit "^[OP"        ;exit command mode back to prompt to retrieve alarms
                        ;
                        ;alarm retrieval finished here
                        ;

pause 2

if $CARRIER == 0
    goto CXR_ALARM
endif
;
;-----
transmit "status health^M"

pause 5

snapshot capture

transmit "^[OP"        ;exit command mode back to prompt
                        ;

pause 2

if $CARRIER == 0
    goto CXR_ALARM

```



LOOP1.WAS

```

endif
;
;-----
transmit "list measurements trunk-group summary last-hour^M" ;get MB counts

MORE_MB:

if $CARRIER == 0
    goto CXR_ALARM
endif

waitfor "Command: " 7          ;wait 7 seconds

if FAILURE
    snapshot capture
    transmit "^[OV" ;enter 'F7' (next page)
    goto MORE_MB
endif

pause 2
snapshot capture

transmit "^[OP"          ;exit command mode back to prompt to retrieve alarms
;
;alarm retrieval finished here
;

pause 2

if $CARRIER == 0
    goto CXR_ALARM
endif
;
;-----
transmit "monitor traffic hunt-groups "
transmit AGENT1          ;
transmit "^M"            ;
;
pause 6                  ;
snapshot capture         ;
;
transmit "^[OP"          ;get back to command prompt
pause 2                  ;

if $CARRIER == 0
    goto CXR_ALARM
endif
;
;-----
transmit "monitor traffic hunt-groups "
transmit AGENT2          ;
transmit "^M"            ;
;retrieve ivr port status here
;

```

LOOP1.WAS

```

pause 6      ;
snapshot capture  ;
              ;

transmit "[OP"
pause 2

if $CARRIER == 0
    goto CXR_ALARM
endif
;
;-----
atoi AGENT3 AGENT      ;test for three hunt-group (agent) screens
if AGENT != 0

    transmit "monitor traffic hunt-groups "
    transmit AGENT3 ;
    transmit "^M" ;
                                ;retrieve ivr port status here
                                ;
    pause 6      ;
    snapshot capture      ;
                                ;

    transmit "[OP"
    pause 2

    if $CARRIER == 0
        goto CXR_ALARM
    endif
endif
;
;-----
;transmit "status pgate-port "
;transmit PGATE_PORT ;
                                ;retrieve pgate port status here
;-----
transmit "status logins"
transmit "^M" ;
                                ;retrieve logged in users here
                                ;
pause 4      ;
snapshot capture      ;
                                ;

transmit "[OP"
pause 2

if $CARRIER == 0
    goto CXR_ALARM
endif
;
;-----
transmit "list measurements load-balance total last-hour^M"

```

LOOP1.WAS

MORE\_LOAD\_INFO:

```
if $CARRIER == 0
    goto CXR_ALARM
endif

waitfor "Command: " 6      ;pause 6 seconds

if FAILURE
    snapshot capture
    transmit "[OV" ;enter 'F7' (next page)
    goto MORE_LOAD_INFO
endif

pause 2      ;
snapshot capture      ;
                    ;
```

```
;  
;-----  
capture OFF
```

```
fclose 1

transmit "[OP"      ;get back to command prompt

pause 1
```

IS\_OFFLINE:

```
if ACD_SWITCH == 1
    dos "follow1" HIDDEN
    if isfile "ill1.maj"
        dos "ill1alm.bat" HIDDEN
    endif
    if findfirst "ill1*.ken"
        dos "ill1ken.bat" HIDDEN
    endif
    pause 5
endif
```

```
if ACD_SWITCH == 2
    dos "follow2" HIDDEN
    if isfile "ill2.maj"
        dos "ill2alm.bat" HIDDEN
    endif
    if findfirst "ill2*.ken"
        dos "ill2ken.bat" HIDDEN
    endif
    pause 5
endif
```

```
if ACD_SWITCH == 3
```

```
ftp -s:alarms3 144.156. [REDACTED] miclalm
cat micl.maj >> miclmaj.log
del micl.maj
```

Page 1

Appendix 7

DUTYPAGE.WAS

;Script to loop waiting for MAJOR alarm message to be sent to pager  
[REDACTED]  
;all rights reserved

string MSGFILE = "display.msg"  
string [REDACTED]  
string MESSAGE

proc main

while 1

pause 30

if isfile "ill1.maj"  
dos "copy ill1.maj display.msg"  
pause 3  
dos "del ill1.maj"  
pause 3  
call send\_page  
dos "type display.msg >> major.log" HIDDEN  
pause 3  
dos "del display.msg" HIDDEN  
endif

if isfile "ill2.maj"  
dos "copy ill2.maj display.msg"  
pause 3  
dos "del ill2.maj"  
pause 3  
call send\_page  
dos "type display.msg >> major.log" HIDDEN  
pause 3  
dos "del display.msg" HIDDEN  
endif

if isfile "ill3.maj"  
dos "copy ill3.maj display.msg"  
pause 3  
dos "del ill3.maj"  
pause 3  
call send\_page  
dos "type display.msg >> major.log" HIDDEN  
pause 3  
dos "del display.msg" HIDDEN  
endif

if isfile "mic1.maj"  
dos "copy mic1.maj display.msg"  
pause 3  
dos "del mic1.maj"  
pause 3  
call send\_page  
dos "type display.log >> major.log" HIDDEN

# DUTYPAGE.WAS

```

    pause 3
    dos "del display.msg" HIDDEN
endif

if isfile "mic2.maj"
    dos "copy mic2.maj display.msg"
    pause 3
    dos "del mic2.maj"
    pause 3
    call send_page
    dos "type display.msg >> major.log" HIDDEN
    pause 3
    dos "del display.msg" HIDDEN
endif

if isfile "ohio.maj"
    dos "copy ohio.maj display.msg"
    pause 3
    dos "del ohio.maj"
    pause 3
    call send_page
    dos "type display.msg >> major.log" HIDDEN
    pause 3
    dos "del display.msg" HIDDEN
endif

yield
endwhile

endproc

func send_page : integer

    fopen 2 MSGFILE READ TEXT    ;Read alarm message from 'display.msg' into MESSAGE string
    fgets 2 MESSAGE

    dial DATA "DISPLAYPAGE"
    pause 5
    transmit "^M"
    waitfor "ID="
    transmit "M^M"                ; send 'M' for Manual
    waitfor "Pager ID, then RETURN."
    transmit PIN
    transmit "^M"
    waitfor "Message, then RETURN."
    transmit MESSAGE
    transmit "^M"
    waitfor "Thank You"
    transmit "^["^D^M"            ; <ESC> <ROT> <CR>
    pause 1
    hangup
    pause 5
    clear
    return 1

```

DUTYPAGE.WAS

endfunc

Mic1.htm

```
<HTML>
<META HTTP-EQUIV="Refresh" CONTENT=60>
<HEAD><TITLE>MIC1 ACD</TITLE></HEAD>
<BODY BGCOLOR = "#F0F0F0">
<H1><FONT COLOR="#880000">
<CENTER>- Lucent ACD Status -</CENTER>
</FONT></H1>
<CENTER><H3><FONT COLOR="#880000">(as of Thu Mar 09
14:50:03 2000
CDT)</FONT></H3></CENTER>

<HR>
<CENTER><TABLE>

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<TD><CENTER><H2><FONT FACE=ARIAL
COLOR="#880000">MIC1</FONT></H2></CENTER></TD>
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<TH WIDTH = 94><CENTER><FONT FACE=ARIAL SIZE=1>TRUNK
GROUP</CENTER></TH>
<TH><FONT FACE=ARIAL SIZE=1>TRKS</TH>
<TH><FONT FACE=ARIAL SIZE=1>OOS</TH>
<TH><FONT FACE=ARIAL SIZE=1>*OCC</TH>
<TH><FONT FACE=ARIAL
SIZE=1>.....20.....40.....60.....80.....10
0</TH>
</TR>

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<TD><FONT FACE=ARIAL SIZE=1><A
HREF="mic1011.htm">TROY</TD>
<TD ALIGN=RIGHT><FONT FACE=ARIAL SIZE=1>708</TD>
<TD ALIGN=RIGHT><FONT FACE=ARIAL SIZE=1>0</TD>
<TD ALIGN=RIGHT><FONT FACE=ARIAL SIZE=1>34%</TD>
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```



```

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[REDACTED] </TD>
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```

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```
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DETROIT</TD>
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```

```
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SOUTHFIELD</TD>
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<TD><IMG SRC="greenbar.gif" HEIGHT=11 WIDTH=1></TD>
```

```
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IVR</TD>
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```

```
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STATUS</TH></TR>
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<A HREF="mic1alm.htm">There are 0 alarms:</A>
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STATUS</TH></TR>
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<A HREF="mic1agnt.htm">There are 190 agents</A> active, 0
calls in queue at 15:50.
<BR>No TDM blockage. Highest past hour (14:00) occupancy
was 24% in PN 2.
<BR>No PN blockage. Highest past hour (14:00) occupancy
was 32% in PN 29.
<BR>Occupancy St: 4% Sm: 11% Cp: 8% Idl: 77%
<BR>SPE: B/auto A/functional
<BR>Busied Out Trk: 0 Stn: 0 Oth: 0
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TROY</FONT></H2></CENTER><CENTER>
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COLOR="gray">ALARM STATUS</TH>
<TH WIDTH = 100><FONT FACE="arial" SIZE=2
COLOR="gray">CSU_A</TH>
<TH WIDTH = 100><FONT FACE="arial" SIZE=2
COLOR="gray">CSU_Z</TH>
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## CIRCUIT DETAILS

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TROYMIUOW00 Z DTRTMIBL6CD
CLO MIS123927001      DV      ACT IE IND   PRQ SSP TSP
MSC N MCO DTRTMIBHSHC
CAC SVF2BP3  CUST AMERITECHCOMMUNICATI PULS -- MW B EML
OBJ      PG 01 OF 04
M SEQ A  LOCATION  SV EQPT/FAC  RR/TYPE  UNIT  A
TLP Z    SBDV/MISC  TP
002 E          THIS IS  A PRO-CDS  DESIGN
N
004 I          MODEL =  8589  DESI GN = 2
N
006 X TROYMIUOW00  **LINE C ODE=B8ZS**
N
008 X TROYMIUOW00  **SIGNAL  CODE=ESF*  *
N
010 I  PROCESSED  BY FLOWTHRU ID:HICAP-A  VERS: 002
STAMP :041295 130406 N
012  TROYMIUOW00  04DS6/   44  /
NI
014          HCG-
NC
016          [REDACTED]
STA ADDR      N
018          TROY
EU CITY       N
020          MI
EU STATE      N
022 W TROYMIUOW00  DEMARC
S
024  TROYMIUOW00  POI
XA
026 W          X4 806      T3      2
IC          X#
028
OWNER=B-BX    XX
030
E=DTRTMIBLK07 XX

```

Appendix 11

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 F07/07 /0397 XZ  
 036 DTRTMIBLK06 T3MAE412 040473.11 1916  
 F66/13 /08 /4 XM  
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 CLO MIS123927001 DV ACT IE IND PRQ SSP TSP  
 MSC N MCO DTRTMIBHSHC  
 CAC SVF2BP3 CUST AMERITECHCOMMUNICATI PULS -- MW B EML  
 OBJ PG 02 OF 04  
 M SEQ A LOCATION SV EQPT/FAC RR/TYPE UNIT A  
 TLP Z SBDV/MISC TP  
 038 DTRTMIBLK07 T1MBDX01 040483.02B ACSA  
 XH  
 040 DTRTMIBLK07 T1MBDY01 040482.02C CSSA2  
 XH  
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 XF  
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 F66/12 /07 /4 XM  
 052 DTRTMIBLK07  
 F07/07 /0397 EX  
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 056 E DTRTMIBLK07 035-16  
 / N2  
 058 E DTRTMIBLK07 T1 /  
 N3  
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 EH  
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 EH  
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 068 DTRTMIBLK07 T1MBD831 040481.03A 1-27  
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 070 DTRTMIBLK07 DCS5NNNF7

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      F93/03 /02 /44 EU
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CLO MIS123927001      DV      ACT IE IND      PRQ SSP TSP
      MSC N MCO DTRTMIBHSHC
CAC SVF2BP3  CUST AMERITECHCOMMUNICATI PULS -- MW B EML
OBJ      PG 03 OF 04
M SEQ A  LOCATION      SV EQPT/FAC  RR/TYPE      UNIT      A
TLP Z    SBDV/MISC      TP
074      DTRTMIBLK07
      F07/07    /035 EX
076      DTRTMIBLK07      SD=TSLS- 5500
      EX
078      DTRTMIBLK07      $FEPMTYP E=ANSI403; FEPM=
      EX
080      DTRTMIBLK07      ON;DS1 F ORMAT MUST =ESF;
      EX
082      DTRTMIBLK07      NEPM=OFF
      EX
084      DTRTMIBL              NCT2YGEEE
                                F#
086 W DTRTMIBL      T1ML1971 11CAB1      0114
      F93/07 /06 /14 EM
088 W DTRTMIBL      T1IUJ222 IP03191235
      P
090      DTRTMIBL      $**PM SM ARTJACK**  S1=NA
      PX
092      DTRTMIBL      ,S2-1=DI SABLE,S2-2 =DISA
      PX
094      DTRTMIBL      BLE,S2-3 =DISABLE,S 2-4=E
      PX
096      DTRTMIBL      NABLE,S2 -5=ESF,S3= 7.5D.
      PX
098      DTRTMIBL      B,S4=SHO RT,S5=DISA BLE,S
      PX
100      DTRTMIBL      6=ON,S7= ENABLE
      PX
102 W DTRTMIBL6CD      DEMARC
      S
104      [REDACTED]
      STA ADDR      N
106      11
      EU FLR      N
108      1129
      EU ROOM      N

```

CKT S /HCGS/324230 /MB A  
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CLO MIS123927001 DV ACT IE IND PRQ SSP TSP  
MSC N MCO DTRTMIBHSHC  
CAC SVF2BP3 CUST AMERITECHCOMMUNICATI PULS -- MW B EML  
OBJ PG 04 OF 04  
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TLP Z SBDV/MISC TP  
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MINOR (@EPN 21 - SOUTHFIELD)

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